

From: Boyle, Chris <fdfffc8466e2488e9733fab53b5669a4-boyle_chri@exchangelabs.com>
Sent: Monday, August 14, 2017 9:57 AM
To: Gasparro, Michael <Michael.Gasparro@sabre.com>
Subject: ITW Pre-read materials for Strategy Offsite
Attach: Corp Strategy Session Agenda.pdf; Managing change at Sabre - Strategic Initiatives update.pdf; Pan-Sabre Product Strategy NGR-NGID.pdf; Strategy Offsite - Airline Solutions.pdf; Strategy Offsite - P&T - 1 Project Mercury.pdf; Strategy Offsite - P&T - 2 Data Center Strategy.pdf; Strategy Offsite - Travel Network.pdf; Strategy Offsite - Hospitality Solutions.pdf

From: Anderson, Clinton
Sent: Sunday, August 13, 2017 9:56 PM
To: Menke, Sean <Sean.Menke@sabre.com>; Jones, Wade <Wade.Jones@sabre.com>; Lane, Matthew <Matthew.Lane@sabre.com>; Wilding, Chris <Chris.Wilding@sabre.com>; Altmeiner, Jan <Jan.Altmeiner@sabre.com>; Jones, Jay (TN) <Jay.Jones@sabre.com>; Mendis, Roshan <Roshan.Mendis@sabre.com>; Burgess, Brett <Brett.Burgess@sabre.com>; Mercer, Traci <Traci.Mercer@sabre.com>; Shirf, Dave <Dave.Shirf@sabre.com>; Doshi, Vinit <Vinit.Doshi@sabre.com>; Gilchrist, Greg <Greg.Gilchrist@sabre.com>; Subramanian, Harikaran <Harikaran.Subramanian@sabre.com>; Jain, Pramod <Pramod.Jain@sabre.com>; Qatato, Kamal <Kamal.Qatato@sabre.com>; Celis, Rodrigo <Rodrigo.Celis@sabre.com>; Krishnamurthy, Balaji <Balaji.Krishnamurthy@sabre.com>; Jorgenson, Brian <Brian.Jorgenson@sabre.com>; Murphy, St. John <StJohn.Murphy@sabre.com>; Kennedy, Sarah <Sarah.Kennedy@sabre.com>; Wiegmann, Richard <Richard.Wiegmann@sabre.com>; Harris, Lesley <Lesley.Harris@sabre.com>; Trampert, Frank <Frank.Trampert@sabre.com>; Simonson, Rick <Rick.Simonson@sabre.com>; Nester, Chris <Chris.Nester@sabre.com>; Boyle, Chris <Chris.Boyle@sabre.com>; Finkelstein, Andrew <Andrew.Finkelstein@sabre.com>; Slevert, Barry <Barry.Slevert@sabre.com>; Herrmann, Christopher <Christopher.Herrmann@sabre.com>; Fishman, Josh <Josh.Fishman@sabre.com>; Schilsky, Stephen <Stephen.Schilsky@sabre.com>; McEntire, Gindy <Gindy.McEntire@sabre.com>; Johnson, Doug <Doug.Johnson@sabre.com>; Farley, Sha <Sha.Farley@sabre.com>; Gonzalez, Rachel <Rachel.Gonzalez@sabre.com>; Thorstad, Brett <Brett.Thorstad@sabre.com>; Everly, Robbin <Robbin.Everly@sabre.com>; Williams-Ramey, Almee <Almee.Williams-Ramey@sabre.com>; Chiamas, Chris <Chris.Chiamas@sabre.com>; Samuel, John <John.Samuel@sabre.com>; Vinod, Ben <Ben.Vinod@sabre.com>; Olsen, James <James.Olsen@sabre.com>; Moore, David <David.Moore@sabre.com>; Joakim, Hani <Hani.Joakim@sabre.com>; Difonzo, Joe <Joe.Difonzo@sabre.com>; Geoffrey, Nabael <Nabael.Geoffrey@sabre.com>
Cc: Naylor, Rachel <Rachel.Naylor@sabre.com>
Subject: Pre-read materials for Strategy Offsite

Dear Sabre Leadership,

In preparation for our annual strategy offsite, our teams have spent the last several months hard at work refining our BU and company strategies. Thank you for all your input and support. I have attached a copy of these materials, along with an agenda, as a pre-read for our upcoming sessions scheduled for Tuesday and Wednesday. Our goal for the sessions is to: a) educate/increase Pan-Sabre understanding across the leadership of our business, b) discuss/debate key questions impacting our future, and c) assist with prioritizing go-forward initiatives and investment.

As you know, these materials are highly confidential so please do not forward or share this content with your team (or anybody else). We are excited for your participation at the offsite, and appreciate the contribution you will be making to our future strategic direction.

Many thanks,

Clinton

PLAINTIFF EXHIBIT
PX005

EXHIBIT
Boyle
5-21-19

SABR-000014899



Agenda: Day 1

07:00 – 08:00AM *Breakfast Buffet*
Opus 2 Ballroom
The Highland Hotel

08:00 – 08:30AM *Introduction: Objectives for the Offsite*
Sean Menke & Clinton Anderson
Opus 1 Ballroom
The Highland Hotel

08:30 – 10:00AM *Pan-Sabre Product Strategy Project:
Next Generation Retailing/ Distribution*
Clinton Anderson, Matt Lane, Chad
Callaghan, Robbie Thomas

10:00 – 10:15AM *Break*

10:15AM – 12:15PM *Airline Solutions*
Dave Shirk & AS Team

12:15 – 01:15PM *Lunch*

01:15 – 03:15PM *Travel Network*
Wade Jones & TN Team

03:15 – 03:30PM *Break*

03:30 – 04:30PM *Managing change at Sabre:
Strategic Initiatives update*
Blair Austin

04:30 – 06:00PM *Free time*

06:00 – 09:00PM *Dinner*
NOLA Restaurant
The Highland Hotel

Note: BU presentation slots include time allotted for Q&A/ discussion



Agenda: Day 2

07:00 – 08:00AM	<i>Breakfast Buffet</i> Opus 2 Ballroom The Highland Hotel
08:00 – 10:00AM	<i>Sabre Hospitality Solutions</i> Clinton Anderson & SHS Team
10:00 – 10:15AM	<i>Break</i>
10:15AM – 12:15PM	<i>Product & Technology</i> Joe DiFonzo, John Samuel & P&T Team
12:15 – 01:15PM	<i>Lunch</i>
01:15 – 02:15PM	<i>Concluding remarks & offsite wrap-up</i> Sean Menke & Clinton Anderson

Note: BU presentation slots includes time for Q&A/ discussion





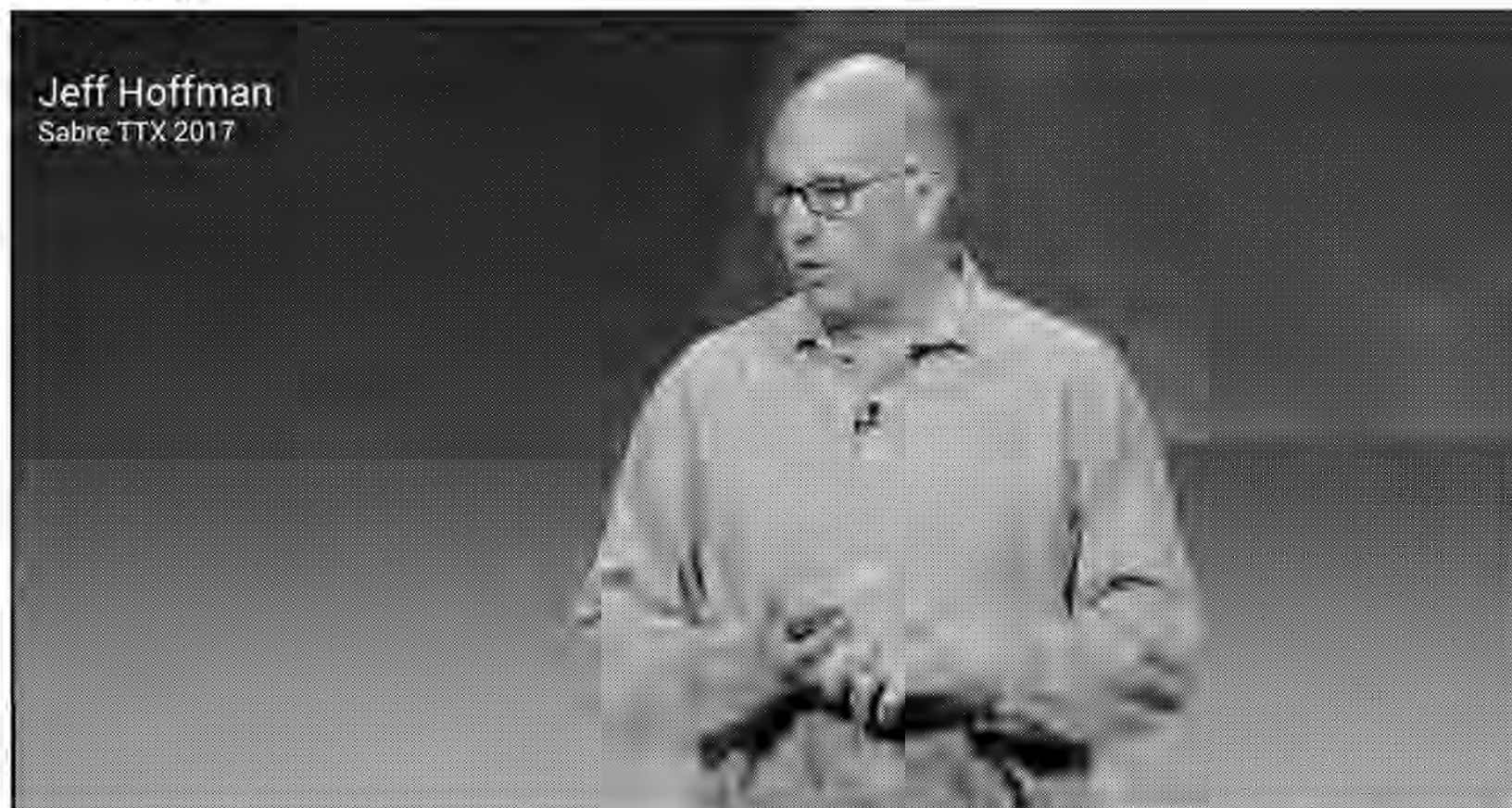
Sabre

Sabre Prioritized Initiative Program

Blair Austin

15 AUGUST 2017

Playing 5-year old



It all began with our 2017 Goals

We defined our goals & objectives but required alignment on prioritization & accountability

Sabre 2017 Priorities

- Commercial Leadership and Growth**
Accelerate revenue and profitability and secure long-term growth through industry-focused solutions.
- Dynamic Innovation in Product and Technology**
Invest in new products and services that address our customers' needs and drive revenue growth.
- Unparalleled Teamwork**
Drive direct and indirect revenue growth through our people.
- Impeccable Performance**
Deliver consistent, high-quality performance across all metrics.

WHAT THIS MEANS FOR EVERYONE

- Commercial Leadership and Growth:
 - Focus on revenue growth and profitability.
 - Invest in new products and services that address our customers' needs and drive revenue growth.
 - Drive direct and indirect revenue growth through our people.
 - Deliver consistent, high-quality performance across all metrics.
- Dynamic Innovation in Product and Technology:
 - Invest in new products and services that address our customers' needs and drive revenue growth.
 - Drive direct and indirect revenue growth through our people.
 - Deliver consistent, high-quality performance across all metrics.
- Unparalleled Teamwork:
 - Drive direct and indirect revenue growth through our people.
 - Deliver consistent, high-quality performance across all metrics.
- Impeccable Performance:
 - Deliver consistent, high-quality performance across all metrics.

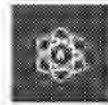
- WHO'S ACCOUNTABLE?**
- WHEN WILL EACH BE ACHIEVED?**
- HOW WILL IT ALL SEQUENCE?**
- WHAT'S NEEDED TO EXECUTE?**
- WHAT DOES GOOD LOOK LIKE WHEN ACHIEVED?**

STEP 1: Align on Initiatives & Accountability



Commercial Leadership and Growth

- 01 Win key campaigns & new business opportunities (B. Pirovetti)
- 02 Focus AS Product Portfolio (D. Dowd)
- 03 Key Account Engagement Strategy (P&C)
- 04 Define Next Generation Product Strategy and Path to Implementation (C. Anderson)
- 05 Execute M&A Analysis (R. Simason)



Dynamic Innovation in Product and Technology

- 06 Program Atlas: Stability Enhancement Initiatives (J. Gilchrist)
- 07 Project Apollo: Data Center migration (L. Gilchrist)
- 08 Project Mercury: Investigate and Execute TPF Offload (J. Gilchrist)
- 09 Enhance & Evolve Shopping (W. Jones)
- 10 Evolve PMS (W. Hill)



Unparalleled Teamwork

- 11 Execute P&T Workforce Planning (J.ROI)
- 12 Define & Execute Best Practice Product Management & Development (P&C)
- 13 Drive Executive Talent Management (S. Monte)
- 14 Transform Sabre's Culture (B. Gowley)
- 15 Enhance Communication (E. Chavira)
- 16 Adopt New Sabre Brand (P. Schavovik)



Impeccable Performance

- 17 Improve Delivery & Care (T&C)
- 18 Implement Enhanced Enterprise Software Tools & Processes (T. Simpson)
- 19 Increase Security & Compliance (W. Simpson)
- 20 Drive Sabre Cost and Efficiency Improvements (S. Monte)
- 21 Achieve GDPR Compliance (P. Chivobala)

STEP 2: Sequence... Can't Do It All At Once



Commercial Leadership and Growth

CURRENT INITIATIVES

- 11 Win key campaigns & new business opportunities
- 12 Focus AS Product Portfolio
- 13 Key Account Engagement Strategy
- 14 Define Next Generation Product Strategy and Path to Implementation
- 15 Execute M&A Analysis

LATE 2017/ 2018 INITIATIVES

* New Launch, ** Strategic Opportunity with considerable need to rework & consolidate in 2018



Dynamic Innovation in Product and Technology

- 16 Program Atlas: Stability Enhancement Initiatives
- 17 Project Apollo: Data Center Migration
- 18 Project Mercury: Investigate and Execute TPF Offload
- 19 Enhance & Evolve Shopping
- 20 Evolve PMS



Unparalleled Teamwork

- 21 Drive Executive Talent Management
- 22 Transform Sabre's Culture
- 23 Enhance Communication

- 24 Execute P&T Workforce Planning*
- 25 Define & Execute Best Practice Product Mgmt & Development**
- 26 Adopt New Sabre Brand**




Impeccable Performance

- 27 Implement Enhanced Enterprise Software Tools & Processes
- 28 Increase Risk & Security
- 29 Drive Sabre Cost and Efficiency Improvements
- 30 Achieve GDPR Compliance*

- 31 Improve Delivery & Care*

STEP 3: Speak the Same Language

INITIATIVE Enhance and Evolve Air Shopping

DATE July 17, 2017 

OWNER Wade Jones

PROJECT STATUS: On Track On Track - On Track (Keyway) - Milestones 1 to 5 are met.

KEY PRIORITIES

- 1. Deliver on the newly defined Air Strategy
 - Substantive investment road map
 - Streamline the organization
 - Innovate for the airline
- 2. Enhance the team structure/structure
 - Enhance an evolution model
 - Expand the solution model
 - Clarify go-to-market models

WORDING TALKER

- Roll Forward (2016)
- Roll Forward (2017)
- Core Solution (2018)
- Core Solution (2019)
- Core Solution (2020)
- Core Solution (2021)
- Core Solution (2022)

KEY

Key	Category	Target
• Customer Centric	• Core Technology	• 25 reqs for 20% of requests
• System Availability (Global & EMEA)	• Improve TTD	• 10mins TTD
• Reliability	• New TTD (2018)	• No PO/PI for 12 mos
• Costless efficiency	• 50% stability	• 95% globality
	• Annual TMT/AMM	• Based on ITA TMT/AMM

WAVE 1 - 2017 (Keyway) - Milestones 1 to 5 are met

Wave	Owner	Target
• People - reduce organizational fragmentation	W. Burgess	Sep 2017
• Funding - ensure funding to innovate & evolve	W. Jones	Oct 2017
• Tech - improve stability & accelerate innovation	D. Moore	Dec 2017
• Process - streamline process/decision overhead	B. Burgess	Dec 2017

WAVE 2 - 2018 (Keyway) - Milestones 6 to 10 are met

Wave	Owner	Target
• People - improve productivity & costs	W. Jones	May 2017
• Tech - approach to streamline & align research efforts	D. Moore	Jun 2017
• Funding - 2018 investments	W. Jones	Aug 2017
• Product - roadmap prioritization	B. Burgess	Nov 2017

MAJOR MILESTONE / DELIVERABLE

Major Milestone / Deliverable	Deliverable (Keyway)	Status
• Shopping org consolidation	Wave 1 - 06/2017 (P) Wave 2 - 09/2017 (P)	Complete (Air Pricing and Online Customer Performance Eng. Moved) ■ On-Track
• Flight Center enhancements (multi destination, alternate date)	07/2017 (P)	Complete
• Shopping evolution: investment case and recommended investments	08/2017 (P)	On-Track
• Shopping evolution roadmap	11/2017 (P)	On-Track
• End-to-end prod. mgmt. & development team-structure alignment	12/2017 (P)	On-Track

STEP 4: Share & Collaborate

SHOWCASE THE TEAM



KNOCK-OUT ISSUES & KEY DECISIONS



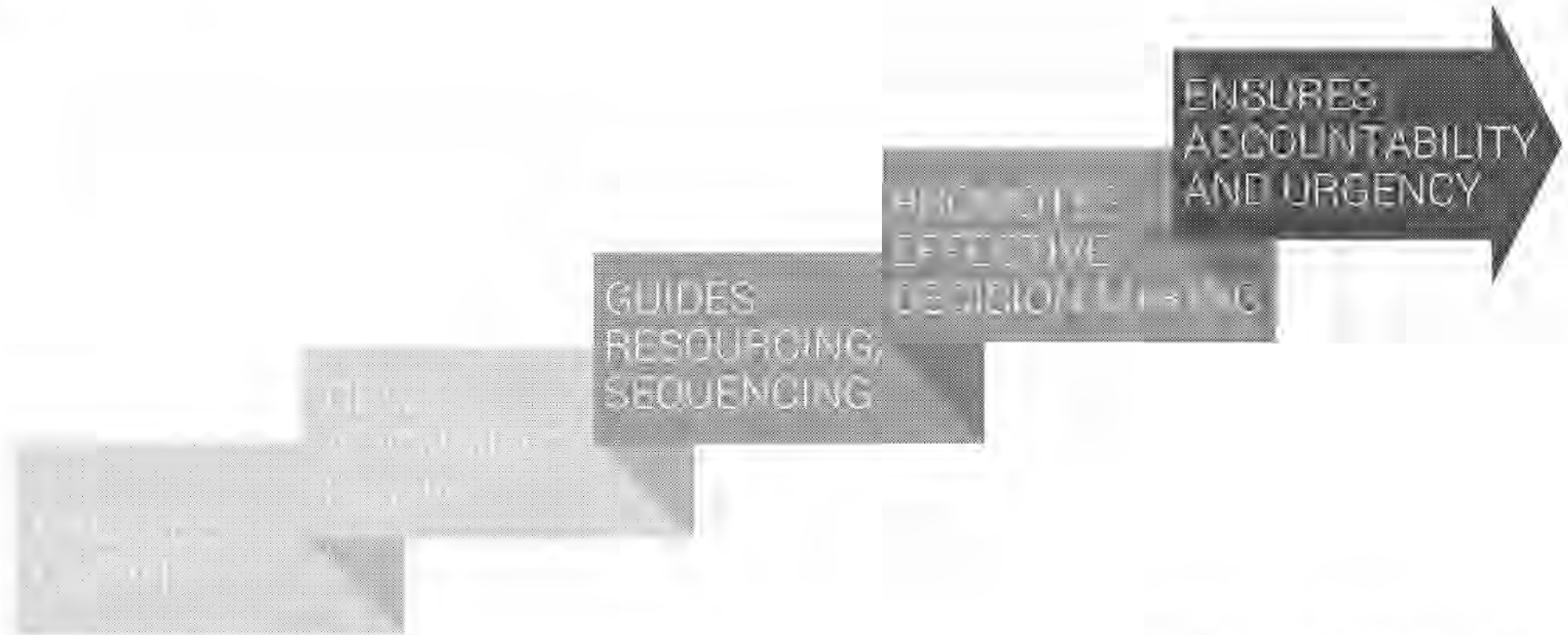
PLAN FOR UPCOMING MILESTONES



REPEAT REGULARLY

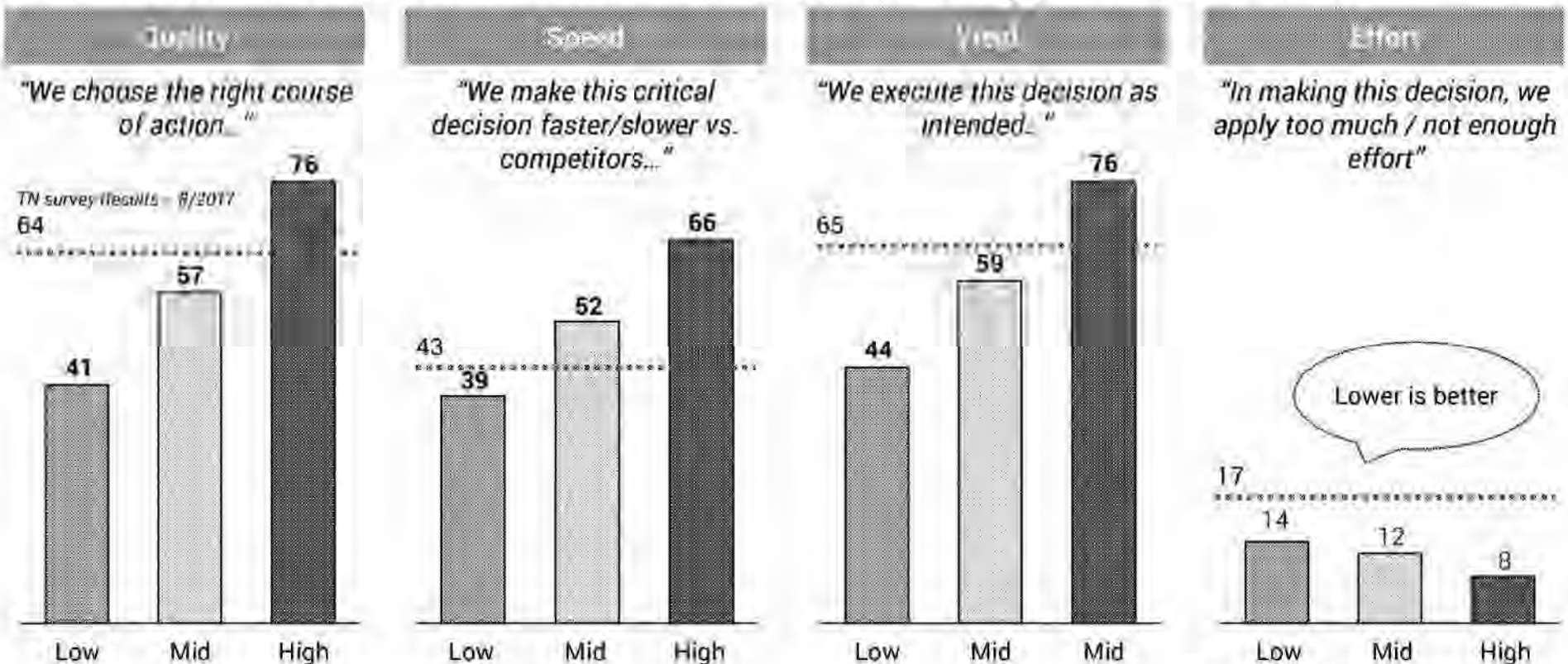


... But How Does This Help Raise Our Game?



Speaking of Effective Decision Making

Effective decisions have 4 characteristics, Speed & Effort are biggest concerns for TN



Source: Anderson, J. P. (2017). *Quality, Speed, Yield, and Effort: The Four Characteristics of Effective Decision Making*. <http://www.gbl.com/publications/articles/the-five-steps-to-better-decision-making>

Adopting RAPID to Improve Decision Making

Effective decision making relies on clarifying the What, Who, How & When

WHAT

- Identify key decisions
- Focus on decisions that matter most

WHO

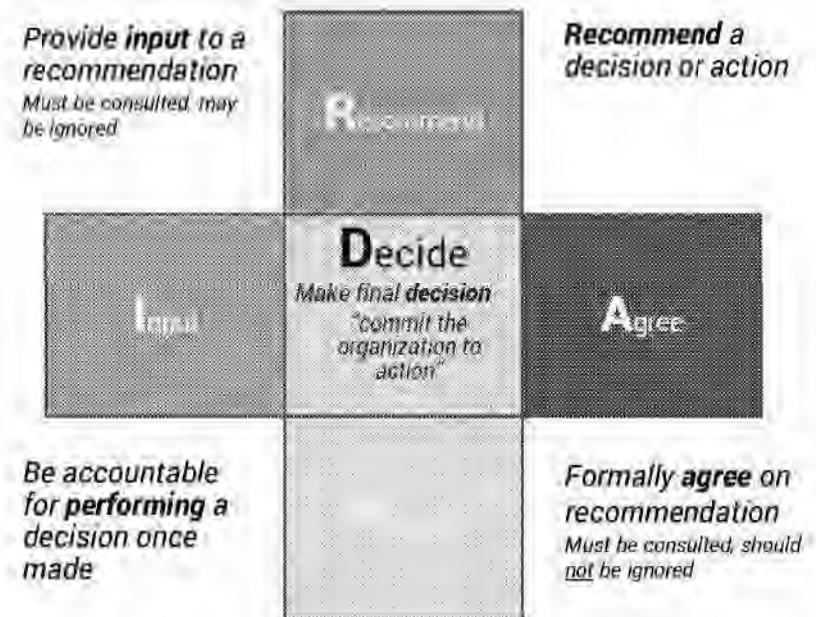
- Define key roles
- Assign decision rights (RAPID)

HOW

- Specify required decision inputs
- Identify decision-making meetings
- Create/ shift org positions if needed

WHEN

- Clarify decision frequency
- Get it on the calendar



How Effective Decision Making Will Look

STOP DOING:

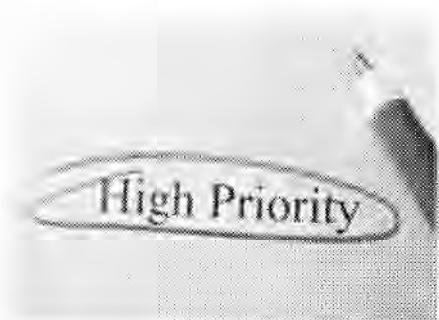
- ✗ Elevating decisions unnecessarily
- ✗ Creating decision bottlenecks
- ✗ Allowing for multiple deciders
- ✗ Revisiting decisions already made
- ✗ Allowing key decisions to go unmade
- ✗ Overtaxing and under delivering

START DOING:

- ✓ Forcing decision ownership to “right” place
- ✓ Aligning on decision rights - RAPID
- ✓ Ensuring there is only ONE ‘D’ per decision
- ✓ Respecting decision & avoiding escalations
- ✓ Prioritizing key decisions
- ✓ Measuring decision effectiveness

How Can I Contribute?

Get to know Sabre Priorities

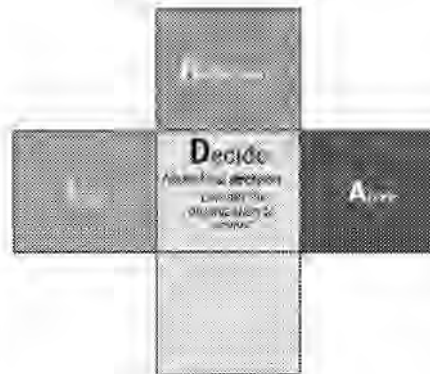


The priority report
 Features insight about Sabre's most important
 items & our objectives

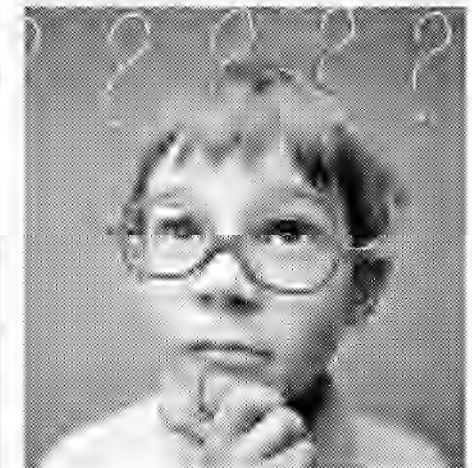
Deploy same (or similar) framework



Adopt RAPID for key decisions



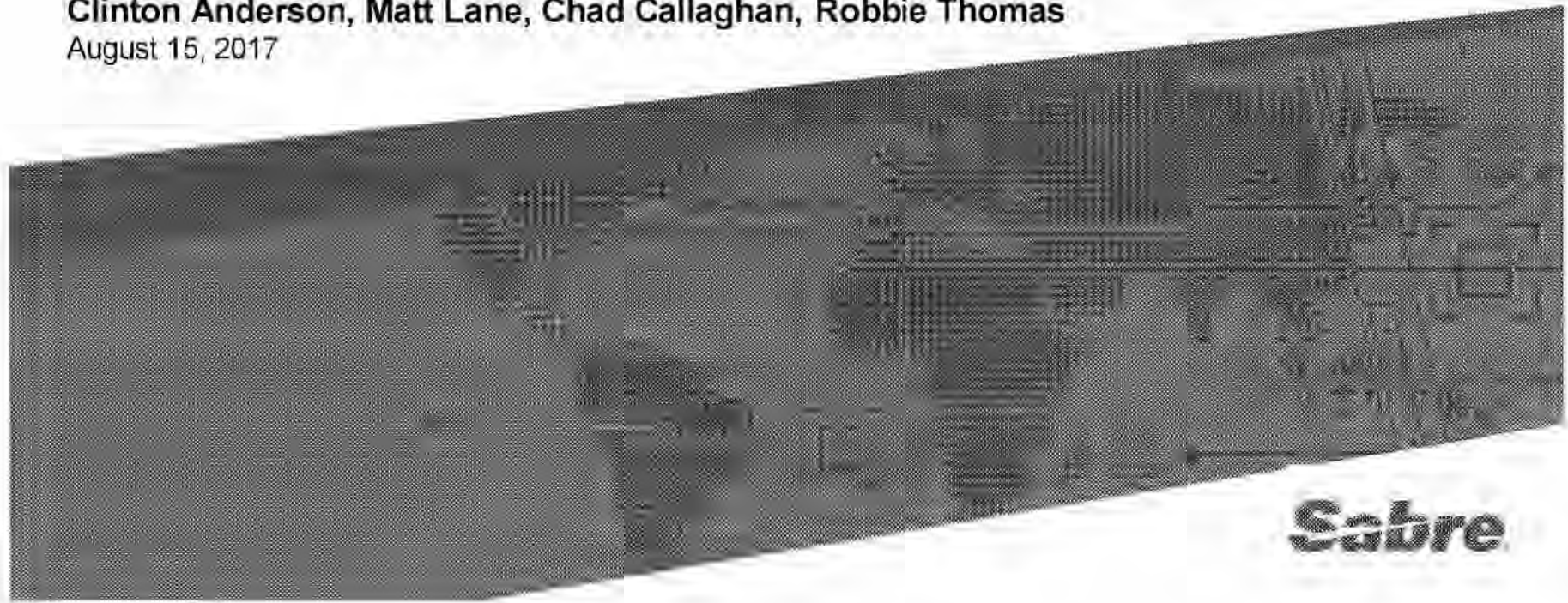
PLAY 5-YEAR OLD!



Sabre

Pan-Sabre Product Strategy: Next Gen Retailing / Next Gen Distribution

Clinton Anderson, Matt Lane, Chad Callaghan, Robbie Thomas
August 15, 2017



Sabre

SABR-000014915

Agenda

- Project context and understanding customer needs
- Defining a “North Star” vision for retailing and distribution capabilities
- Bringing the vision to life: Fast Feedback Team
- Next steps

Executive summary

1 Extensive interviews with suppliers and agencies confirmed the importance for next generation retailing (NGR) and next generation distribution (NGD) capabilities

- Suppliers, particularly airlines, overwhelmingly believed that NGR/NGD was critical for their businesses, a response that is further supported by the pressure being exerted on TN to more rapidly develop NDC connectivity

For airlines, NGR/NGD capabilities would transform core shopping, booking, and fulfillment processes from a one-size-fits-all format to a more flexible, e-commerce process

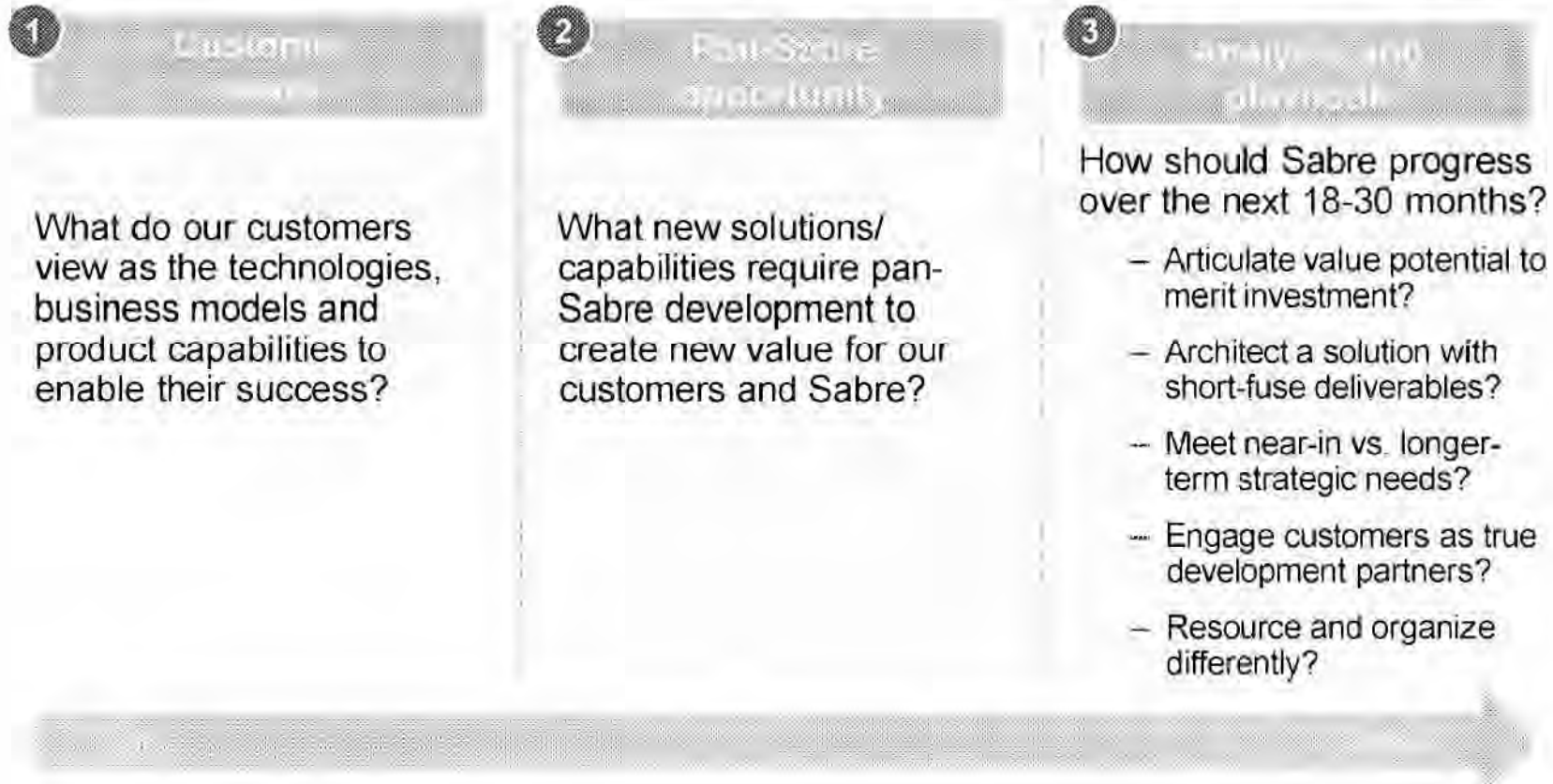
- While airlines have used NDC as a way to express their desires, we believe that Sabre and other technology providers will still have a role in shaping the path forward for technological development and, ultimately, the end state of the ecosystem
- Because of our support of both direct and indirect distribution, development of NGR and NGD should occur in parallel to provide the greatest benefit to our customers, as well as to retain our own fair share of the market. Failure to invest in NGR along with NGD could create risk for existing TN business

2 Enabling NGR/NGD will require four key solutions/ capabilities: 1) Offer Engine, 2) Data Services, 3) NGD: Connectivity & Orchestration, and 4) Order Management

3 To develop these capabilities over 18 to 30 months, a Fast Feedback team developed a five phased pilot approach that also delivers NDC Level 3 for AS/TN, the ability to create targeted offers with dynamic pricing, and integration with non-air supplier to create holistic travel offers; additionally we propose:

- A two-pronged approach for moving forward with NGR/NGD – one approach focuses on accelerating the NGR/NGD strategy through pilots, while the other focuses on examining ways to mitigate near-term NDC pressure
- Partnerships with a large carrier for NDC/NGD development (e.g., [REDACTED]) and a mid-size carrier for full pilot implementation (e.g., [REDACTED])
- A “secondment” organizational structure where employees will retain current reporting structure but be 100% dedicated to NGR/NGD project

Key questions addressed through the pan-Sabre product strategy project



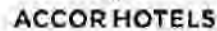
Our customers expect innovative e-commerce capabilities to uncover value for them; they see a role for Sabre as a technology partner

Suppliers



"Today, we have a sledgehammer in how we make offers – we need to **leverage data to limit and target offers to be successful**"

- Ted Christie, CFO, Spirit



"**We want to create a marketplace.** It's not just about monetizing our hotel rooms, it is about growing revenue through new services"

- Laurent Idrac, GIO, AccorHotels



"We want to be able to reach out to customers with a **unique product offering and show that offer in the way that we want it displayed**"

- Markus Binkert, RM, LHG

Agency



"Players who can **leverage their data to drive conversion/yield** will see a big bottom line impact"

- Christophe Tcheng, VP, Product, AMEX



"We'd love to be able to **configure our own bundles and offers** based on what we know about a user and their behavior"

-Adam Goldstein, CEO, Hipmunk



"We're developing inventory, give us a flexible platform that **allows us to conduct agency retailing**"

- CWT Valkre Interview

Corporation



"We are starting to think about the **right answer for our travelers, not just the cheapest answer**"

- Jack Eichhorn, Oracle, Corp, Travel



"What's driving us is how can I **make the experience as frictionless as possible for the traveler**"

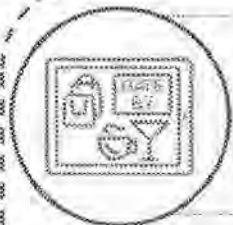
-Rob Fulnecky, Cisco, Corp, Travel



"In the new world you don't need to own the content, just be smart enough to **make the connection for the traveler**"

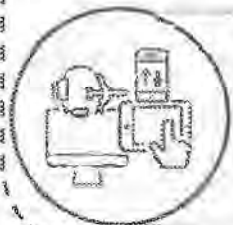
-Dan Maschoff, Accenture, Corp, Travel

Based on these interviews, Next Gen Retailing (NGR) / Next Gen Distribution (NGD) are our customers' most critical capability needs in the near-term



Provide highly relevant offers to travelers based on the information known about them and their trips

Next Generation Retailing



Display travel products the way suppliers want consistently across channels; let them select which channels can access specific content

Next Generation Distribution



Ensure simple, seamless booking and service experiences for the traveler and the service provider across the trip

Frictionless Travel

In terms of technology, suppliers desire to shift shopping/distribution from a filing-based system to a more dynamic and modern e-commerce-like platform

Today, travel retailing is tied to an inflexible process



- Inflexible
- Structured
- Filing driven

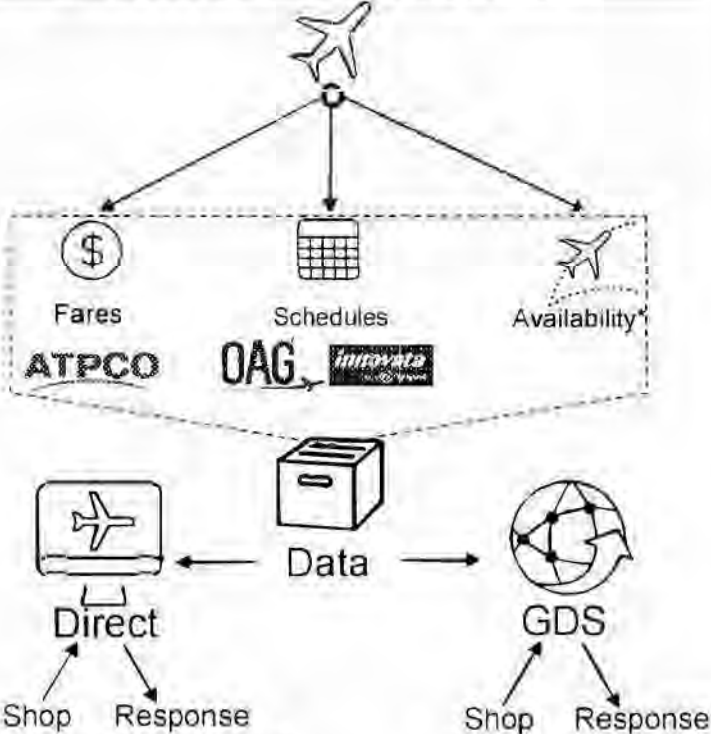
In the future, suppliers are looking for a modern eCommerce and channel management experience



- Intelligent
- Dynamic
- Custom

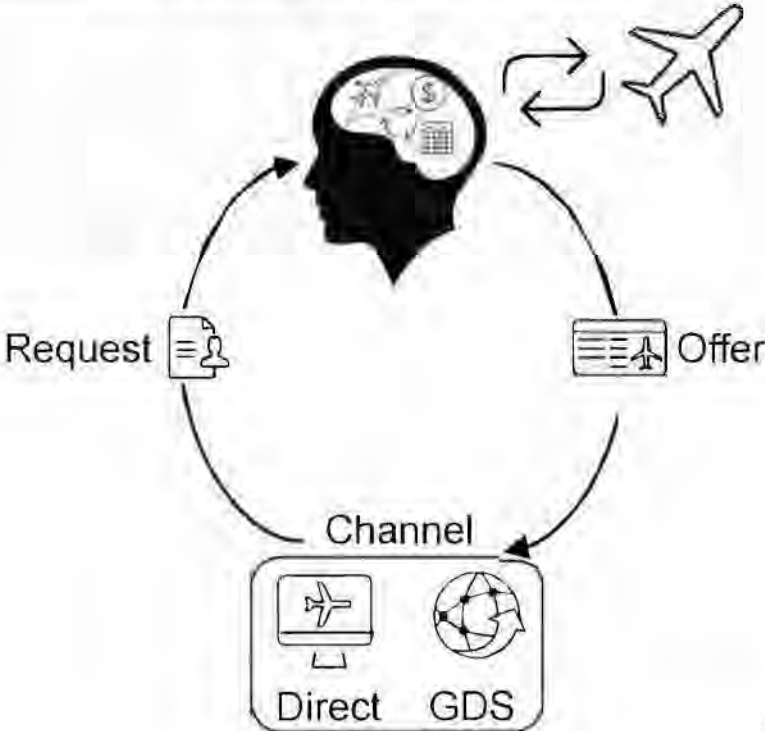
To date, airlines have relied on a filing system to facilitate shopping where fare rules, inventory, and availability are pushed to 3rd parties

Today, itinerary creation requires interaction with 3rd party sources



Note: *Availability may be pulled (cache dependent)

In the future, airlines want to control the flow of offer creation



NDC provides a foundation for NGR/NGD development but is not a value creating solution to change the conversation with our customers

Value-Add Solutions

Next Generation Retailing (NGR)



- Advanced retailing capabilities accessible through both direct and indirect channels
- Utilizes trip context and traveler information from data services to create, price, and deliver custom offers

Next Generation Distribution (NGD)



- Advanced indirect connectivity between suppliers and GDS
- Provides connectivity compatible with proposed NDC guidelines, but with additional functionality
- Orchestrates display of traditional and next gen content through POS

Foundational Messaging Standard



New Distribution Capability (NDC)

- XML-based messaging standard promoted by IATA to govern data transmission to/from airlines
- Proposes that creation and control of the offers and orders reside in the airlines instead of the seller or aggregator
- Likely to be used in parallel with traditional shopping/booking processes for foreseeable future

Not only will suppliers have more flexibility during the initial purchase, but will also likely have more opportunities to connect to the traveler in-trip

Improved capabilities could result in new demand, higher conversion, and increased share of wallet for travel suppliers



Today's revenue management, distribution channels, and points of sale do not allow them to realize this vision today

Channels Available Today	Channels Available Today	Channels Available Today	Channels Available Today
<ul style="list-style-type: none"> • Email • SEM/SEO • Digital Ads • Supplier Mobile App Push Notifications 	<ul style="list-style-type: none"> • Agency POS • OTA • CBT • Supplier.com • Supplier Mobile App 	<ul style="list-style-type: none"> • Supplier.com • Supplier Mobile App 	<ul style="list-style-type: none"> • Airport/Hotel Kiosk • Supplier Mobile App



As retailing becomes more complex, airlines will need to increase their focus on identifying value drivers to improve conversion, yield, and share of wallet

Customer Value Drivers

How might we...



Conversion

look to book %



Yield

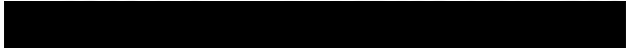
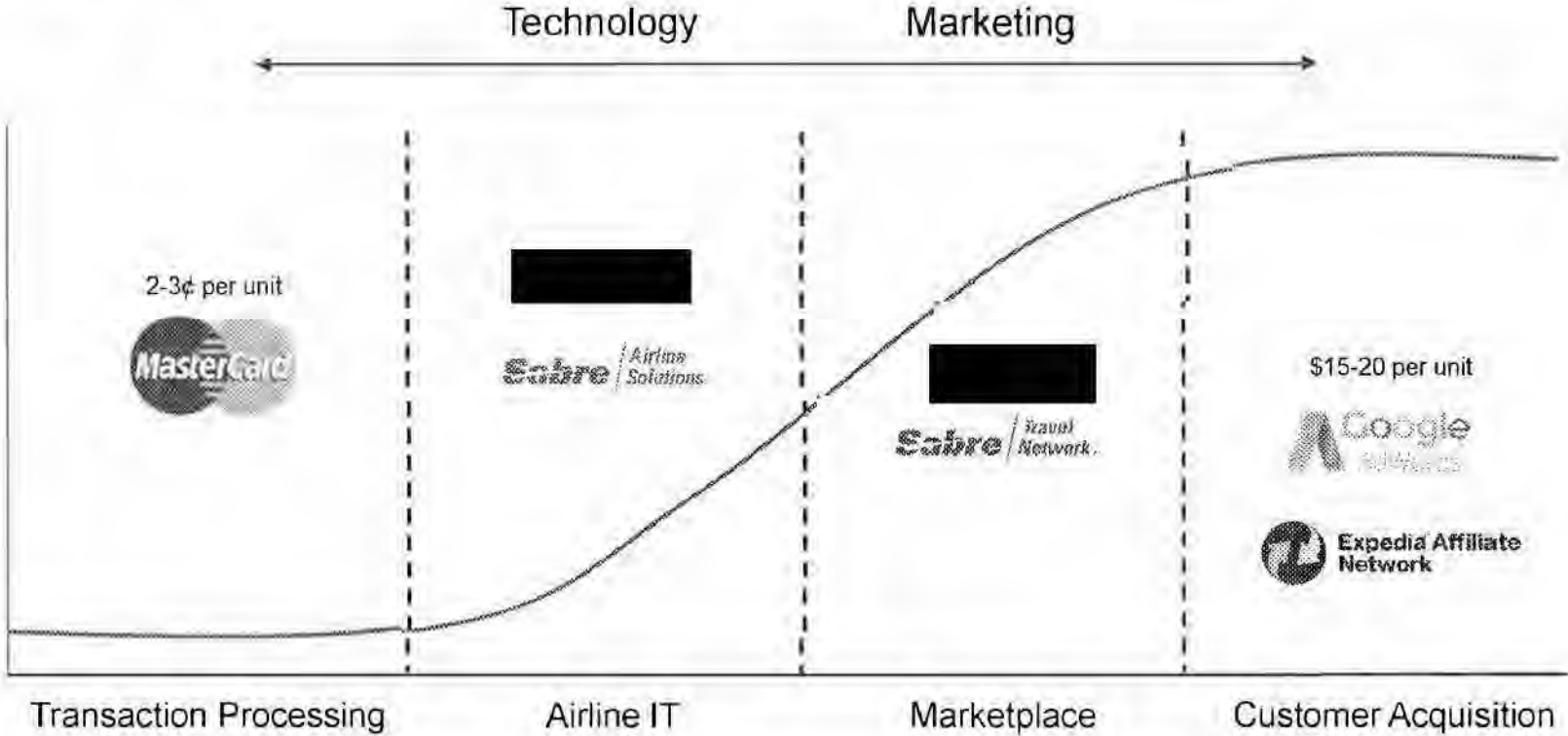
\$ value per transaction



Share of wallet

% of spend

Sabre's ability to continue to capture a fair share of the available market will likely depend on the value proposition we choose to pursue



Among competitors, Amadeus, Farelogix, and Datalex are the most relevant threats with others providing more limited technology

Full NGR / NCD
Offer Engine / Data Services / Connectivity

Have the ability to deliver offers through both the direct and indirect channels

AMADEUS **Sabre**

Partial NGR / Full NCD
Offer Engine / Connectivity

FARELOGIX **Datalex**

High market traction

Travelport VAYANT TRAVEL TECHNOLOGIES

Openjaw PROS

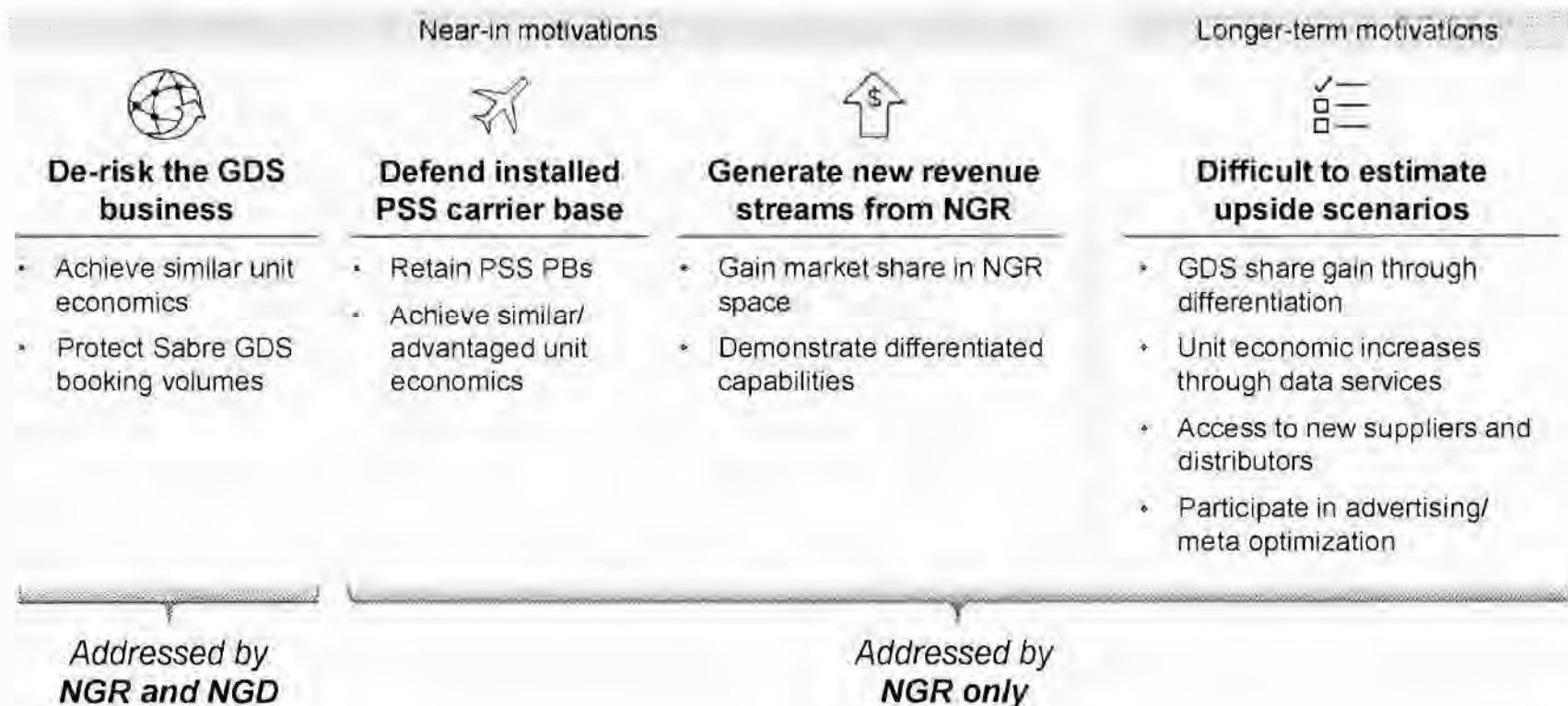
Other solutions available

TP CONNECTS  **BS Technology**

MAUREVA dcs Hewlett Packard Enterprise

indra SITA JR Technologies

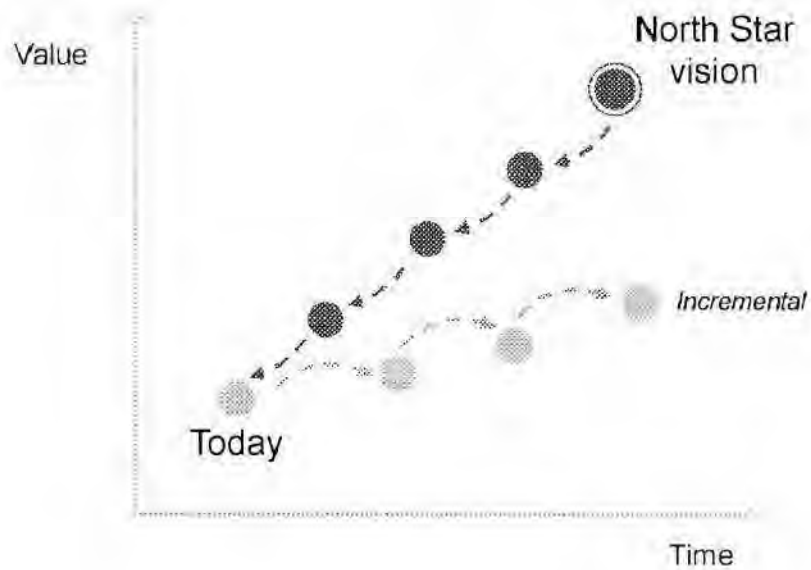
Critical economic motivators in AS/TN underscore the urgency of investing in both NGR & NGD with initial focus on airlines and other suppliers in longer term



Agenda

- Project context and understanding customer needs
- Defining a “North Star” vision for retailing and distribution capabilities
- Bringing the vision to life: Fast Feedback Team
- Next steps

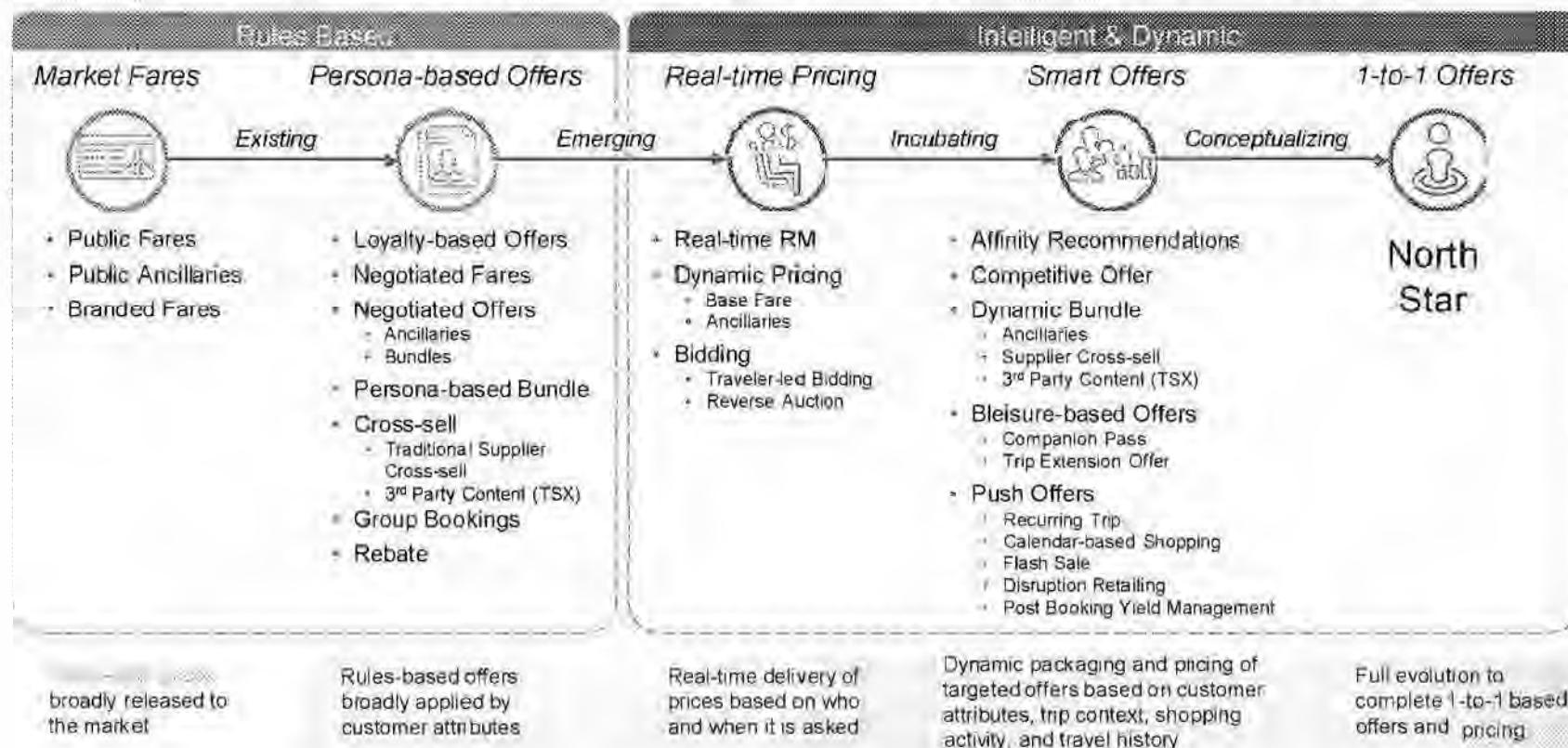
Define "North Star" vision to set future course for NGR/D



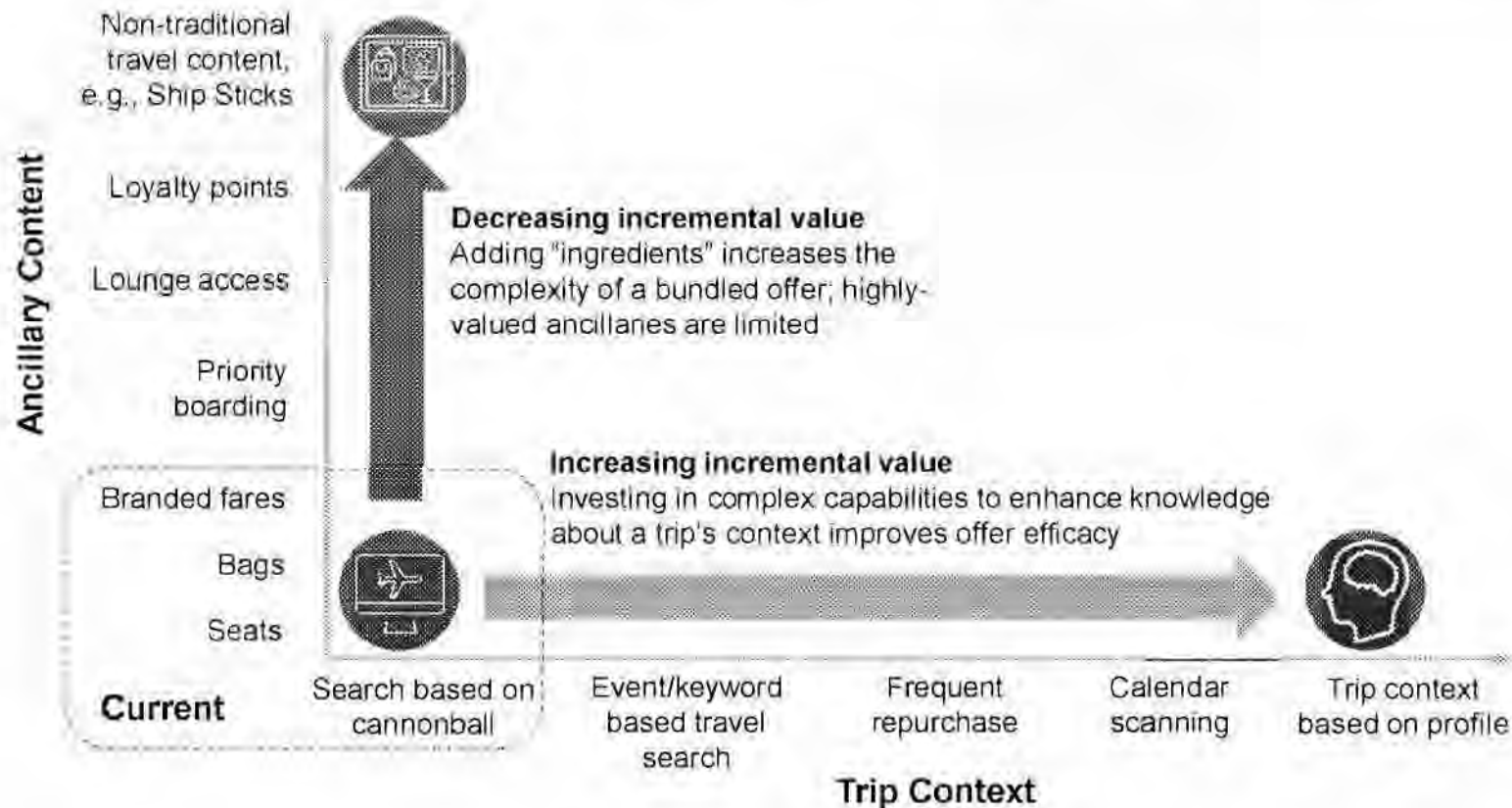
Deliver offers that are:

- Personalized
- Relevant
- Channel agnostic
- Air, hotel, ground, other

Evolution of retailing strategies from the use cases extends from simple rules engine based offers to more intelligent retailing paradigms fueled by AI



Via indirect channel, tech platforms that can interpret context will create more value than simple rules engines with additional “ingredients”



Example: Frequent Business Traveler – “Make my life easier!”



Booking from Calendar

- Proactive offer for travel regarding a meeting scheduled in Microsoft Outlook
- Offer includes upsell on discounted wi-fi
- Option to rebook typical previous trip to same destination



Bleisure-based Offer

- Proactive offer via email to purchase a discounted airfare for a companion traveler
- Easily one-click book directly via the email offer



Dynamic Pricing - Ancillaries

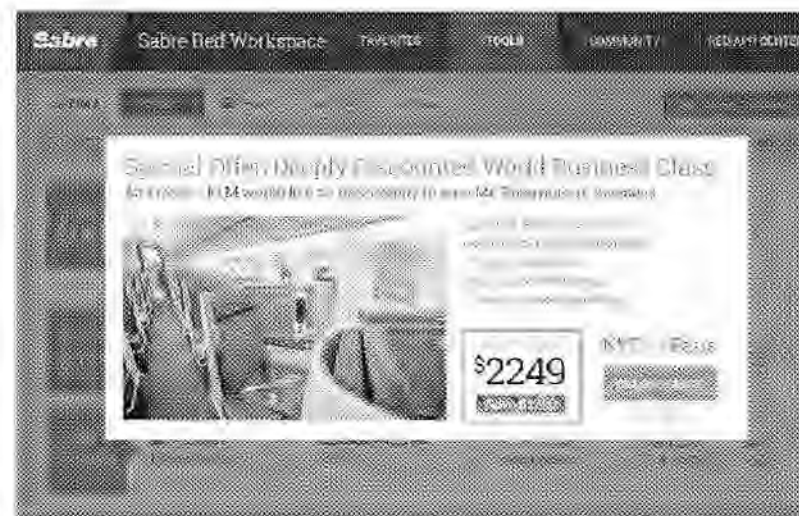
- Longer than normal security lines and airport activity
- Offer via airline app en route to airport to purchase priority boarding for both travelers

Example: VIP Business Traveler – “I need help creating the right itinerary”



Dynamic Offer

- Contacts VIP desk agent for an upcoming international trip
- Based on traveler preferences and previous travel history, a custom itinerary is developed
- Custom offer includes a business class seat in preferred location, on preferred airline, as well as the preferred route and stop-overs

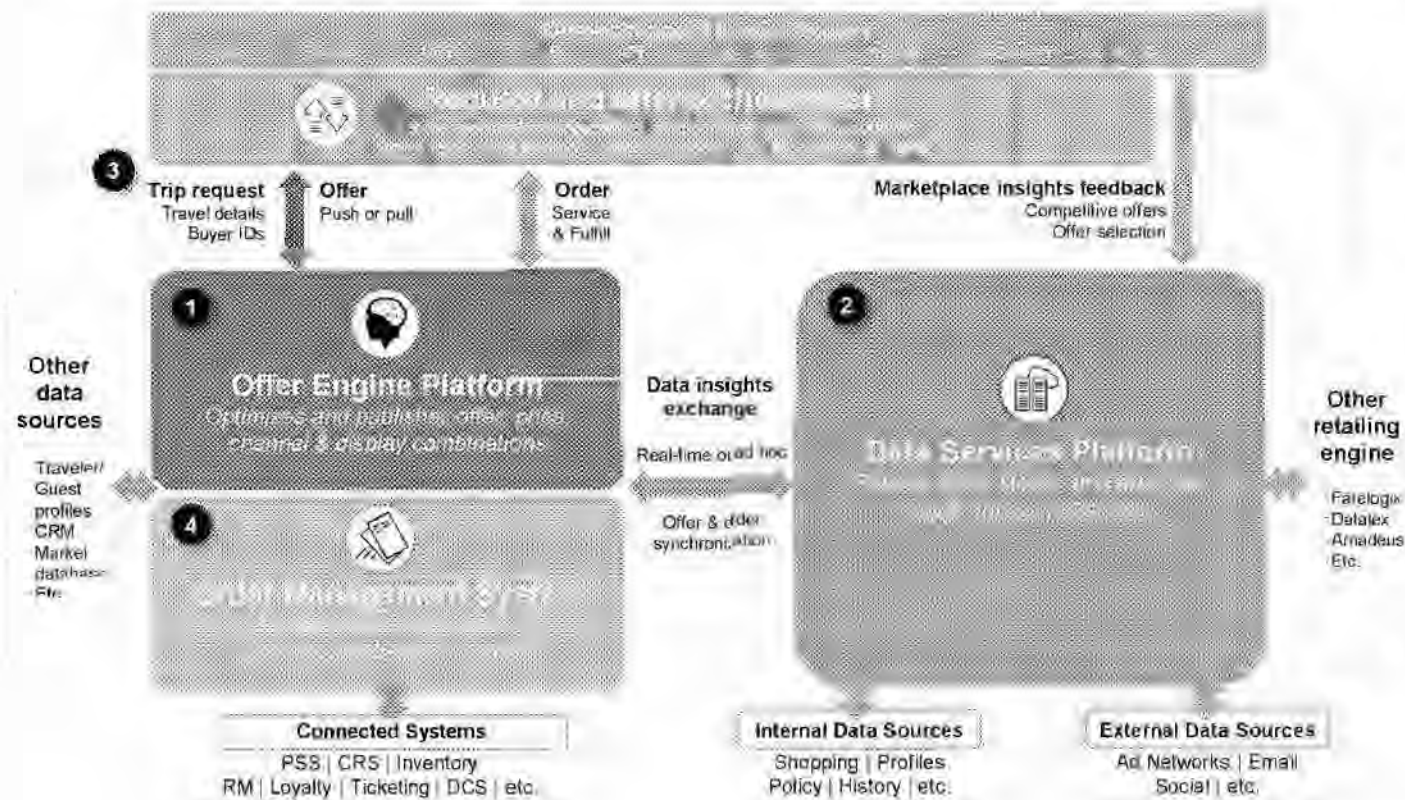


Competitive Offer

- Receives an offer from another carrier for a deeply discounted upgrade to new business class experience
- Rich media highlights the new features and experience
- Selects the new carrier for that portion of the trip



Full evolution of NGR/NGD capabilities requires development in four areas:
 Offer Engine, Data Services, NGD: Connectivity & Orchestration, and Order Management



- Next Gen Retailing**
 - 1 Offer Engine Platform
 - 2 Data Services Platform
- Next Gen Distribution**
 - 3 Request & offer orchestration
 - Standardized connectivity
- Order Management**
 - 4 Enables service and fulfillment of NRG/NGD







NGR offer paradigms require advanced analysis and real-time access to multiple types of data; incentivizing data sharing among stakeholders is key

NGR Offer Engine results are a function of the data available at time of offer



Need to incentivize data sharing among industry stakeholders

NGR/NGD go-to-market strategy will vary based on the size, complexity, and goals of each supplier

Services / APIs	In-house airline offer engine	GDS offer engine
<p>Representative airlines (11) Avg carrier size: 40M+ PBs</p> <ul style="list-style-type: none"> Large FSCs  <ul style="list-style-type: none"> LCC interaction with GDS through data service feeds 	<p>Representative airlines (45) Avg carrier size: 15M - 40M PBs</p> <ul style="list-style-type: none"> Sabre-hosted carriers with high product adoption  <ul style="list-style-type: none"> Non-Amadeus hosted carriers  <ul style="list-style-type: none"> Amadeus hosted carriers 	<p>Representative airlines (113) Avg carrier size: 100,000+ TN BKGs</p> <ul style="list-style-type: none"> Carriers with a small TN GDS footprint 

Notes: Representative airline list excludes Chinese carriers. High-adoption carriers are Airline Solutions/Sabre hosted carriers. Med-adoption carriers are non-Amadeus or Sabre hosted carriers. Low-adoption carriers are Amadeus hosted. TN products will not work with AMA and TP GDS bookings



Agenda

- Project context and understanding customer needs
- Defining a “North Star” vision for retailing and distribution capabilities
- Bringing the vision to life: Fast Feedback Team
- Next steps

Over 6 weeks, a cross-functional Fast Feedback team developed strategic recommendations, tactical plans and tech architecture for NGR/NGD

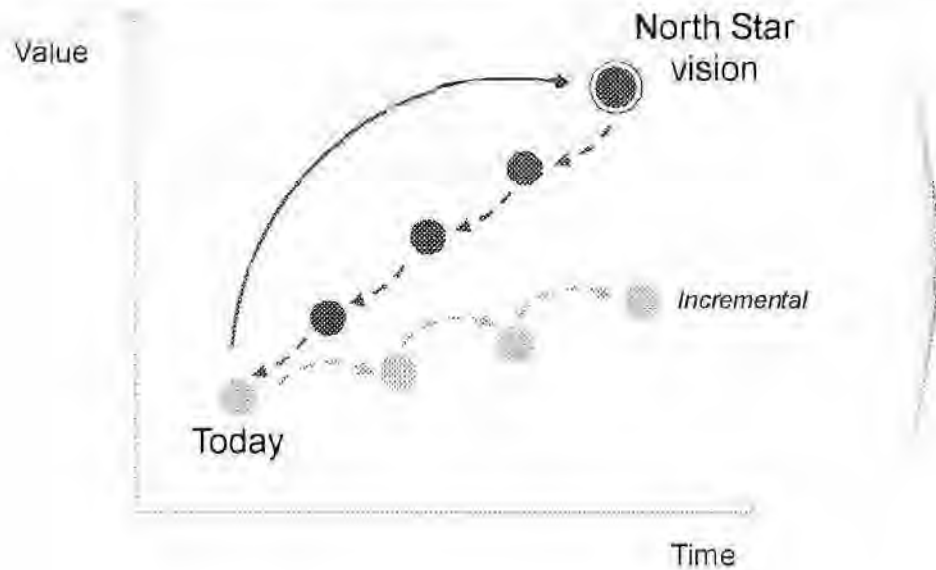
29 member Fast Feedback Team					
TN	AS	SHS	Tech	Data	Corporate
Brad Bennett	JP Olmos	Eben Hewitt	Adam Tworkiewicz	<u>Data Architecture</u>	<u>Corp Strategy</u>
Chris Croupe	Sergey Shebalov	Garth Overmyer	Chad Callaghan	Joni Reeves	Rachel Naylor
Cindy Tonnessen	Stan Boyer		Charles Lee		
Dirk Guenther			Justin Ricketts	<u>ED&A</u>	<u>Legal</u>
Richard Marcus			Lisa Woods	Hitendra Kashyap	Chris Rosa
Robbie Thomas			Mark McSpadden		Misty Barnett
Rohit Gupta			Peter Moore		
			Richard Ratliff		<u>P&T Finance</u>
			Wojciech Gworek		Benton Mahaffey
					Chris Barry
					Josh Fishman

Additional extended team of 20+ advisors and SMEs



To reach end-state, "North Star" NGR/NGD capabilities, we recommend a phased pilot approach, focusing on creating MVPs at each step

Use pilots as steps to move toward delivering "North Star" NGR/NGD vision

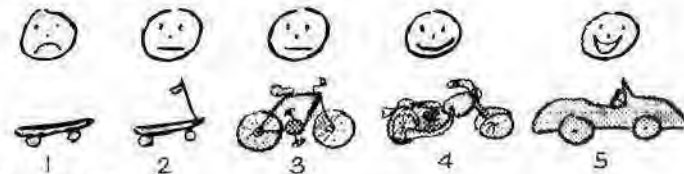


With the deliverable of a MVP with end-to-end functionality during each pilot

Not like this....



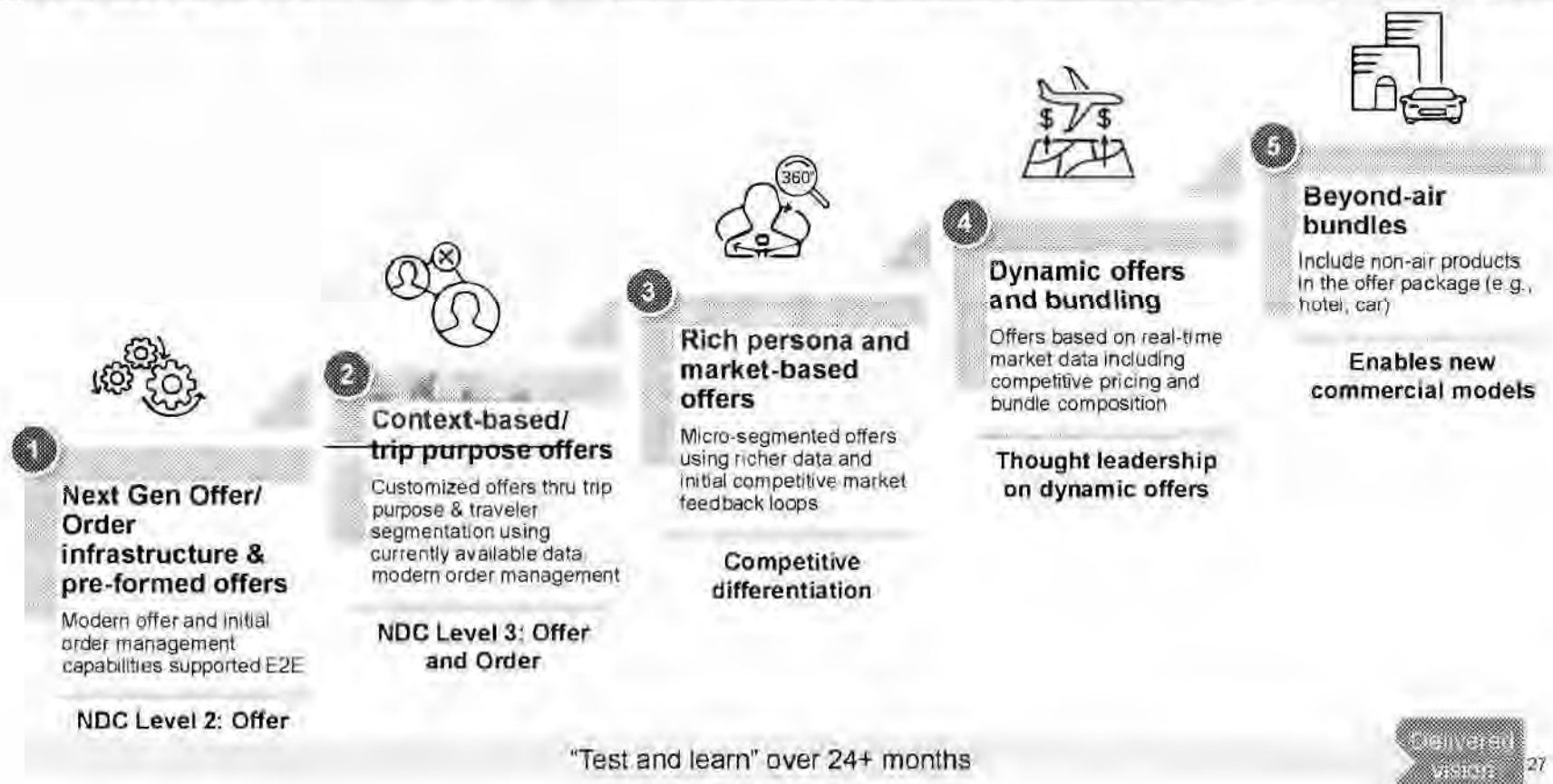
Like this!



by Henrik Kniberg

Source: <https://blog.deming.org/2014/11/minimal-viable-product/>

Five phased pilots build upon each other to deliver increasingly sophisticated NGR/NGD capabilities and distinct benefits related to NDC and differentiation



NGR/NGD Pilots 1 and 2 will enable Sabre to integrate New Distribution Capabilities (NDC) within the next 12 months

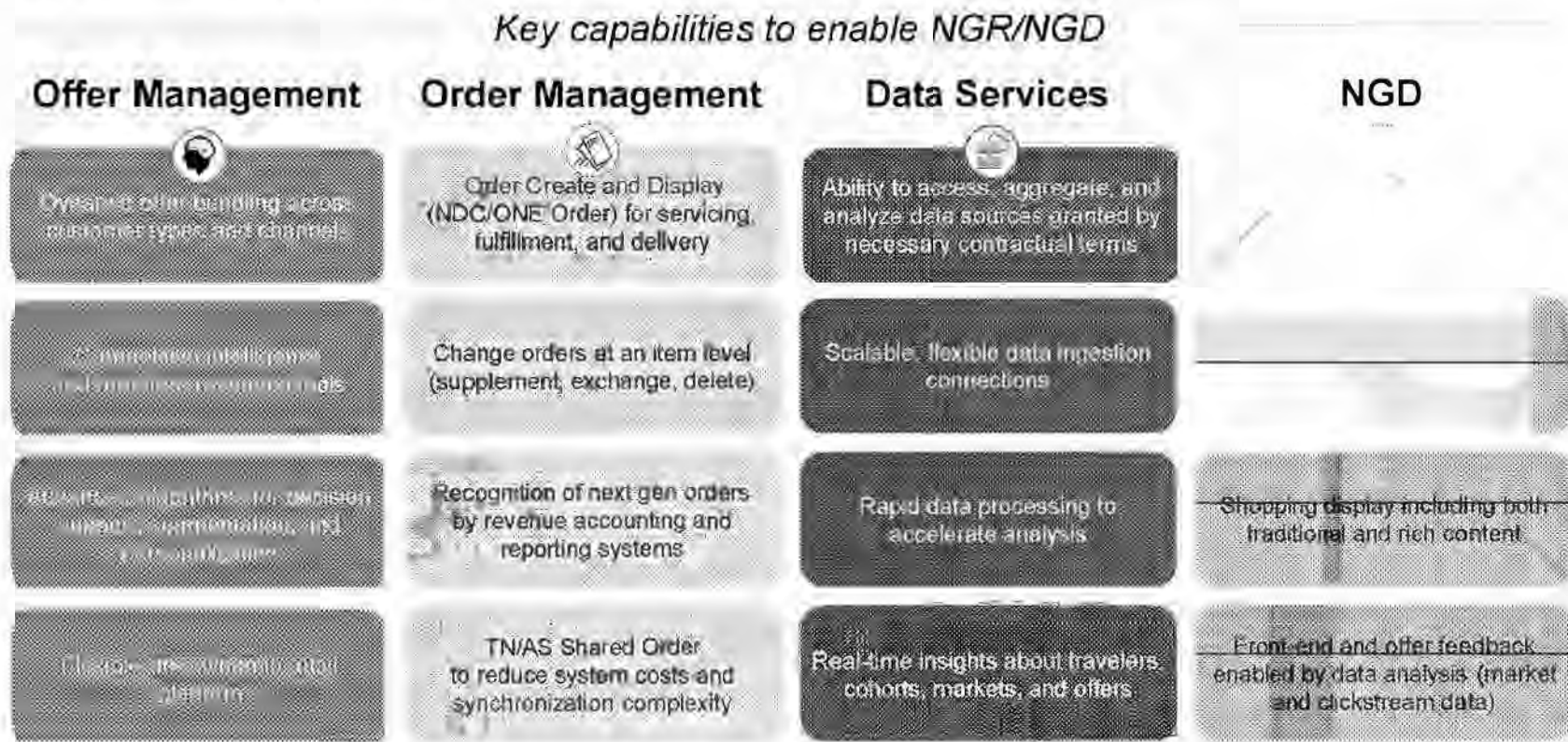
* Select large air suppliers [redacted] are stipulating in current GDS RFPs that NDC capabilities must be integrated within the next 12 months

NDC Level	Description	Current status		Future status	
		TN	AS	TN	AS
Level 1	Post air booking ancillary shopping schemes	Certified	Capable	Certified	Capable
Level 2	Offer (shopping) Management schemes	X	X	Pilot 1	Pilot 1
Level 3	Offer (shopping) and Order Management schemes	X	X	Pilot 2	Pilot 2

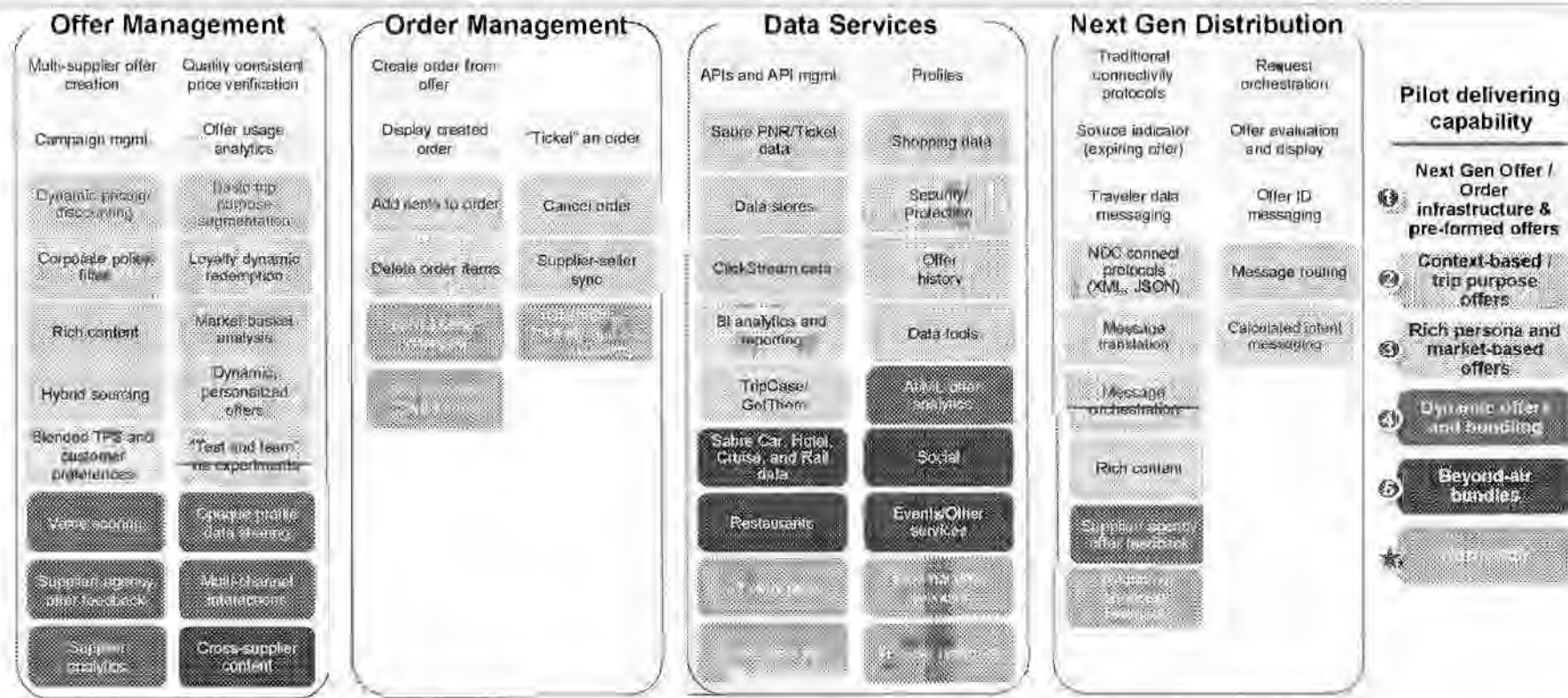
Notes:
 Airlines/aggregators = Certified
 IT providers = Capable



Fast Feedback team identified dozens of relevant capabilities as foundational capabilities to develop for NGR/NGD



Capability dashboard – by pilot phase



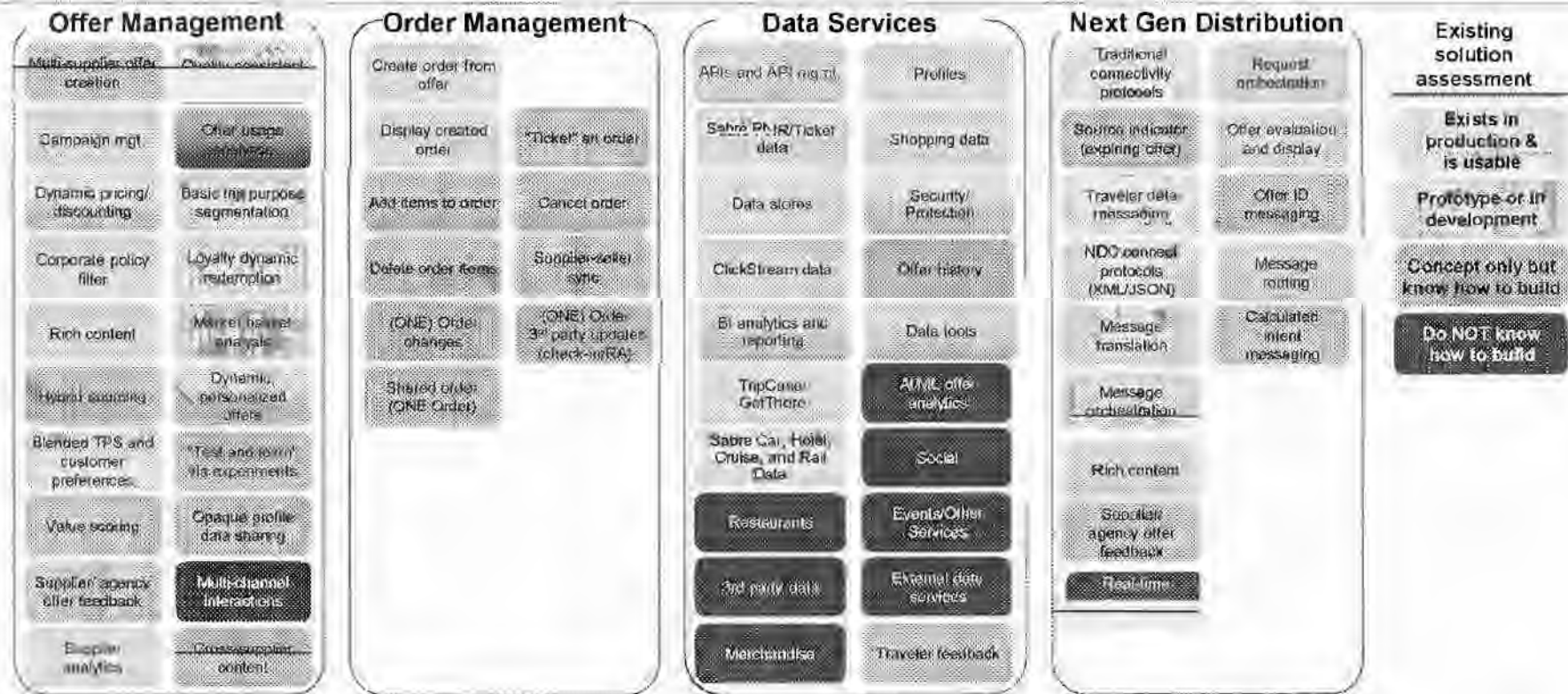
Offer Mgmt capabilities expanded over Pilots 1-5

Order Mgmt capabilities in place after Pilot 2

Data expanded and enriched during Pilots 1-5

NGD capabilities mostly in place after Pilot 2

Capability dashboard – by existing capability assessment



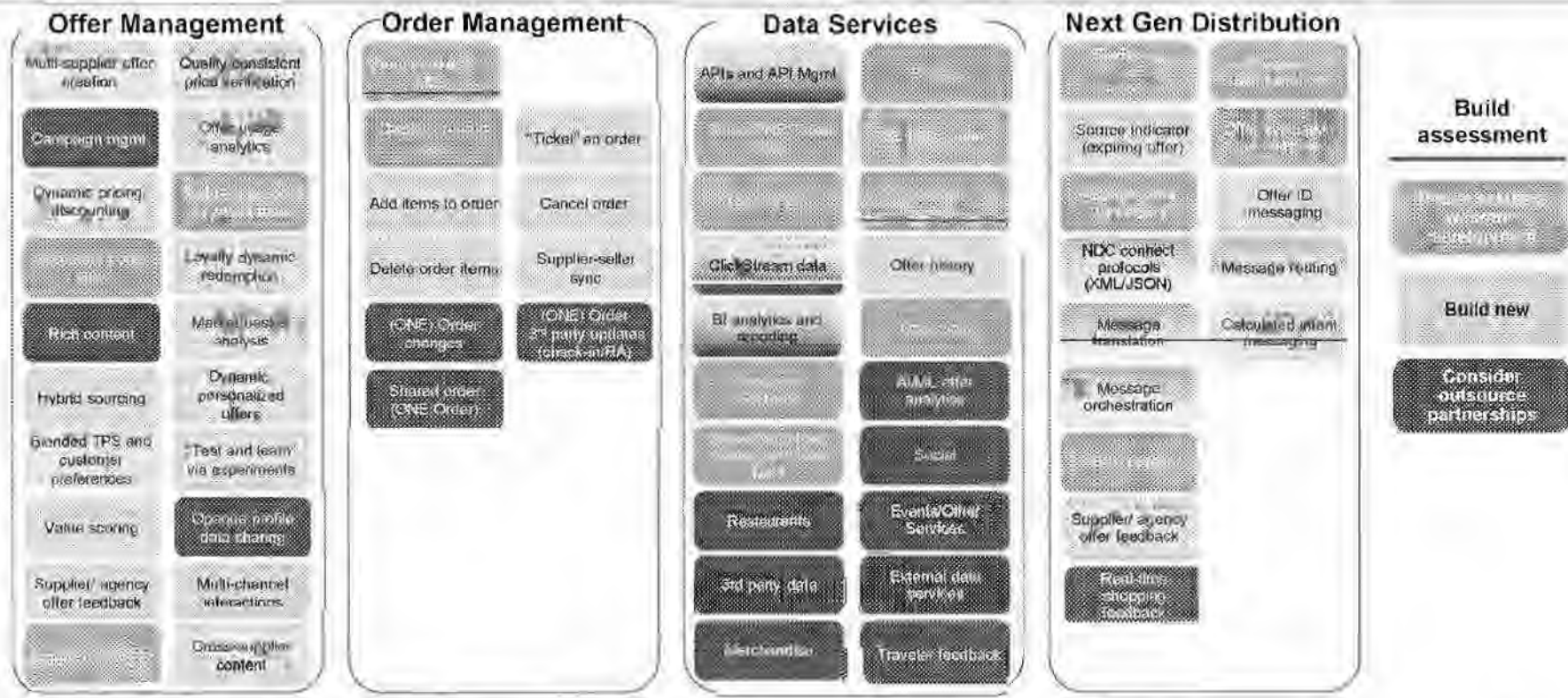
Sufficient internal knowledge; leverage existing solutions and prototypes

Sufficient internal knowledge; new build needed

Engage external experts to address data infrastructure & process questions

Sufficient internal knowledge; build on existing base

Capability dashboard — by build/partner assessment



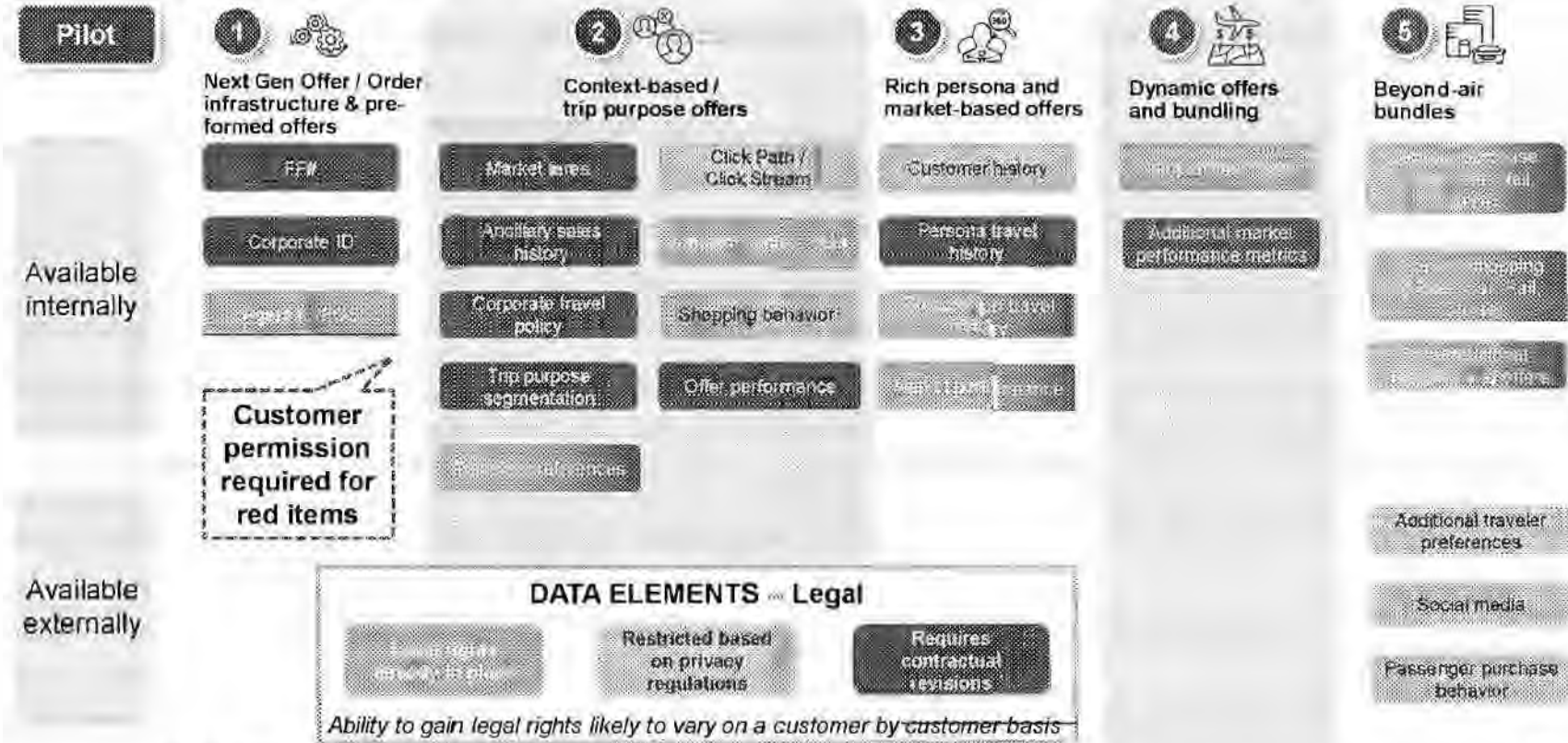
Mainly new internal build with some partnerships

Mix of new internal build and expansion on existing base

Significant partnership potential with some build

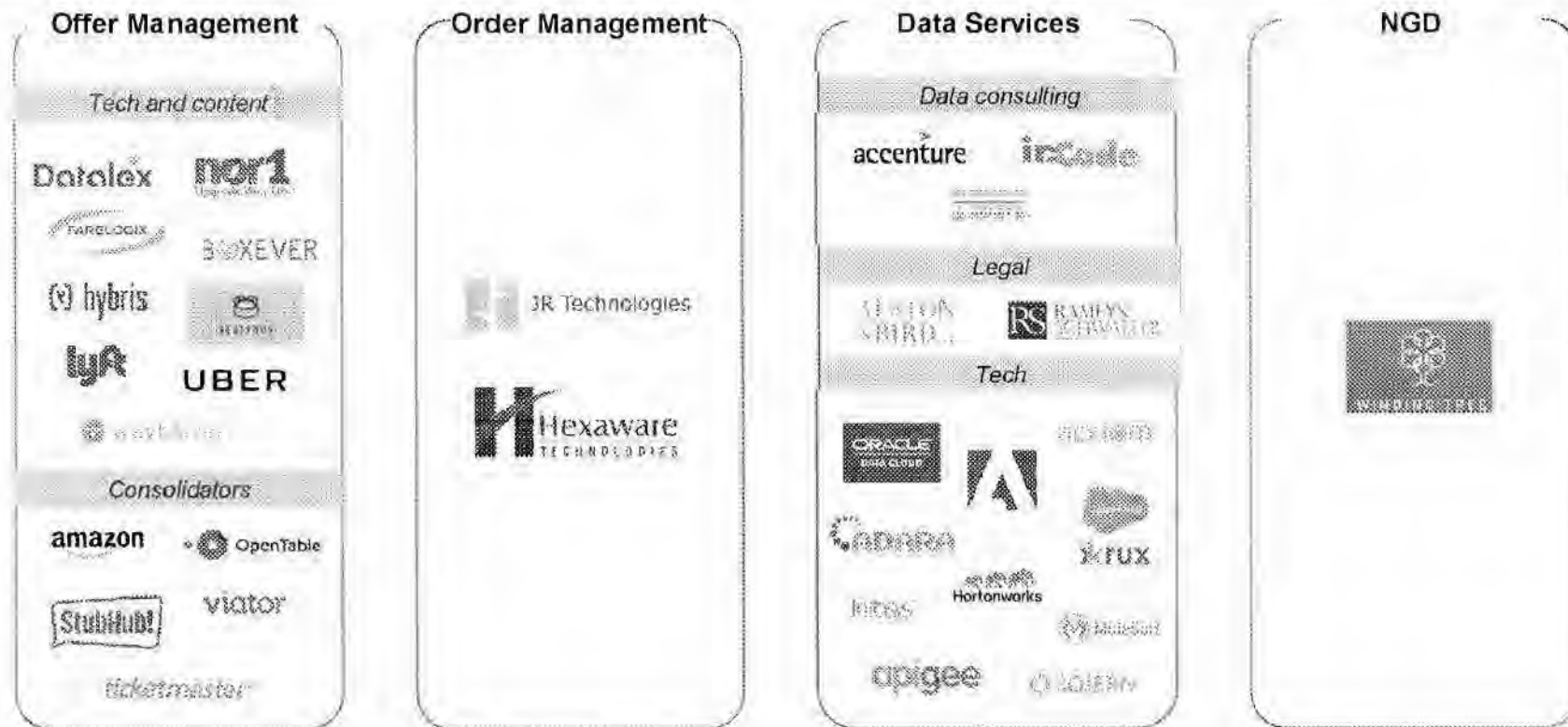
Primarily internal build on existing base

Legal analysis will be required to lay the right groundwork to ensure regulatory compliance and the successful acquisition of data rights

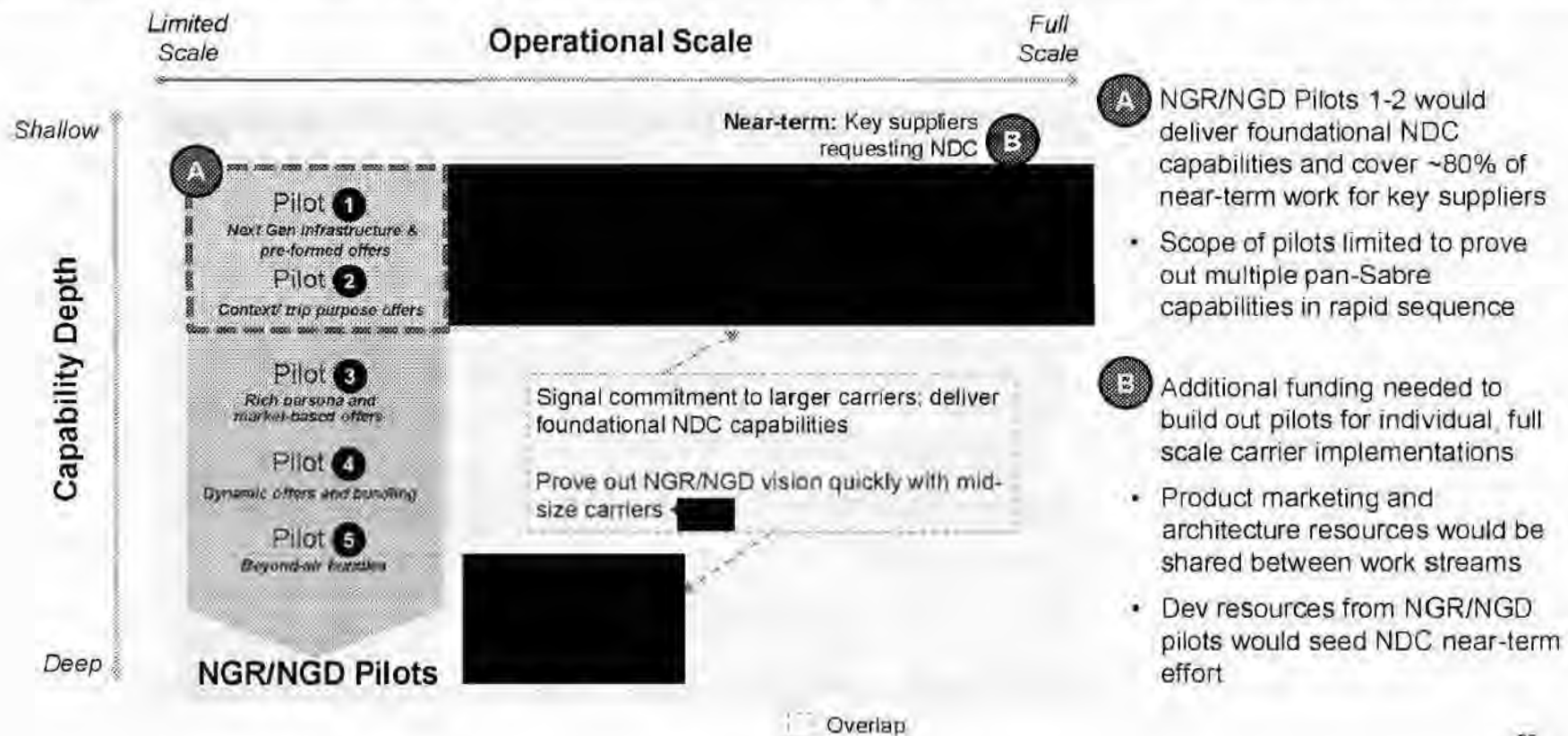


1. Will vary based on whether individual traveler information is included.

Preliminary technical and legal partners for further evaluation after Aug. 4



Recommend pursuing two-pronged strategy to address near-term needs of TN carriers and support long-term aims of NGR/NGD; however, fund separately



Initial partner recommendations suggest mid-size, North American carriers as primary partners with larger carriers as focus for near-in TN efforts

Airline criteria for participation

- Favorable relationship with Sabre and a willing partner
- Location supports efficient working relationship
- Mid-sized with business processes and complexity that replicate those of larger suppliers
- Nimble, progressive company that is willing to invest in the next evolution of technology and the business model
- Willing to participate in PR, with testimonials, and other publicity regarding pilot results

Criteria for other participants

- Agency and corporate participation will be needed to show end-to-end capabilities and to gather feedback
- Carrier participation will dictate which agencies and corporations participate
- Non-air supplier participation is required for Pilot 5

Pilot partner recommendations

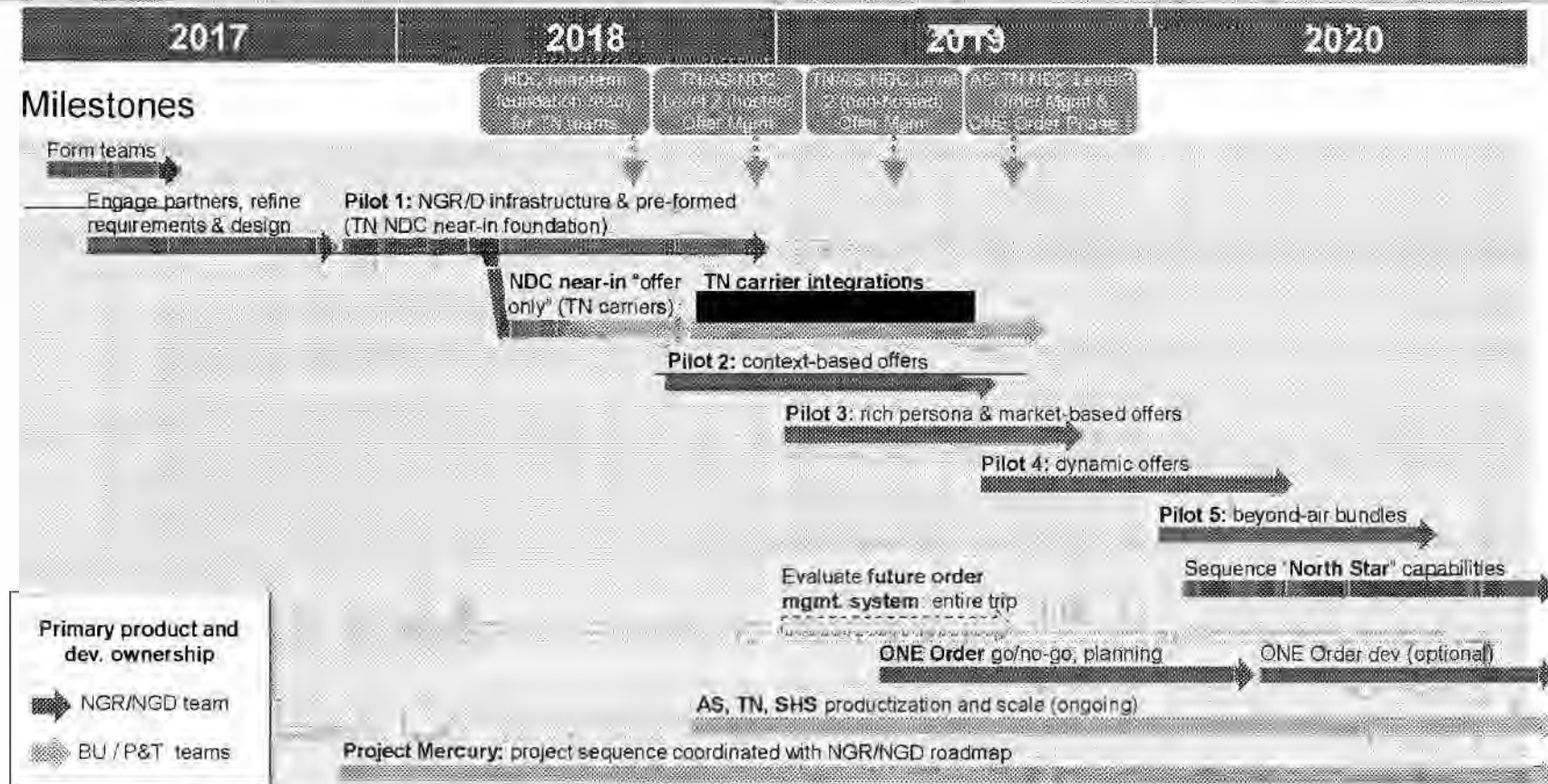
[Redacted]	[Redacted]
Annual PBs – [Redacted] PSS – Sabre GDS – Yes	Annual PBs – [Redacted] PSS – Sabre GDS – Yes
[Redacted]	[Redacted]
Annual PBs – [Redacted] PSS – Navitaire GDS – Limited	Annual PBs – [Redacted] PSS – Sabre GDS – Yes

TN near-in partner recommendations

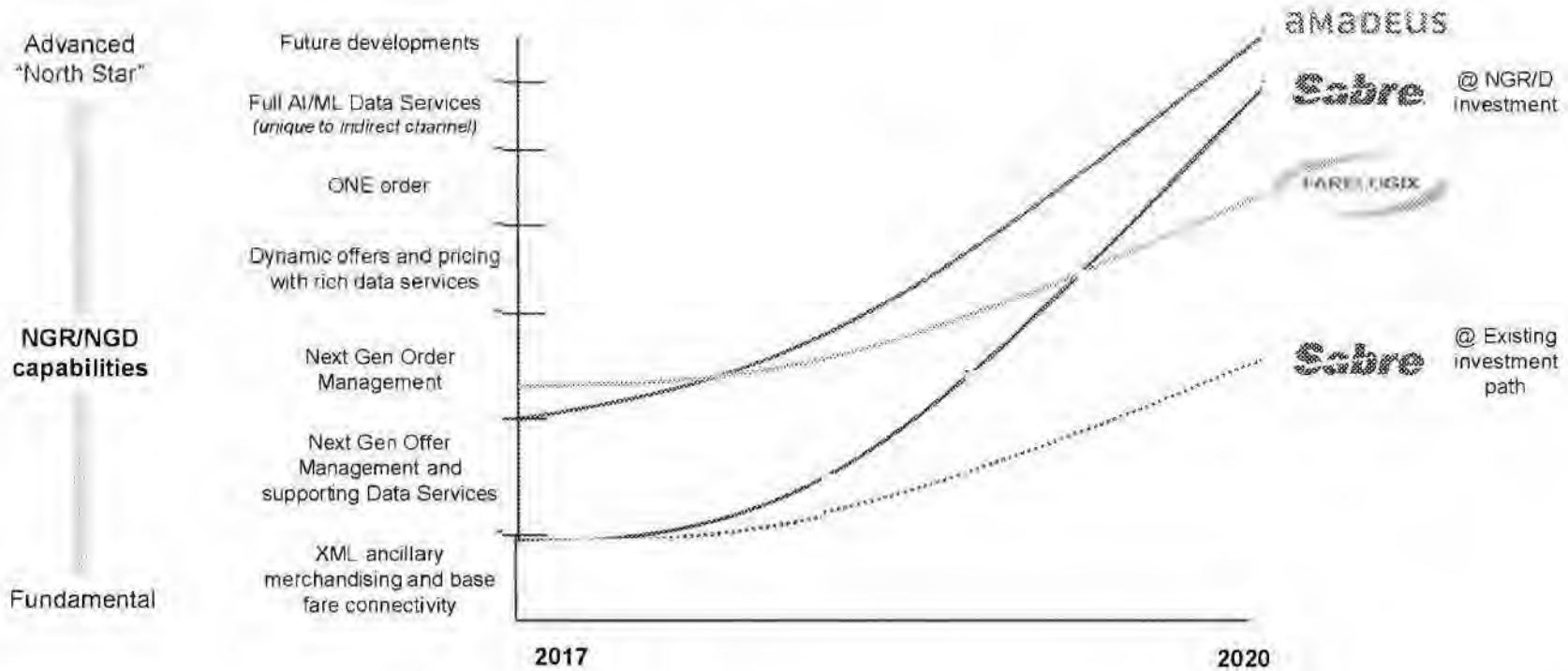
[Redacted]	[Redacted]
Annual PBs – [Redacted] PSS – Amadeus GDS – Yes	Annual PBs – [Redacted] PSS – Amadeus GDS – Yes



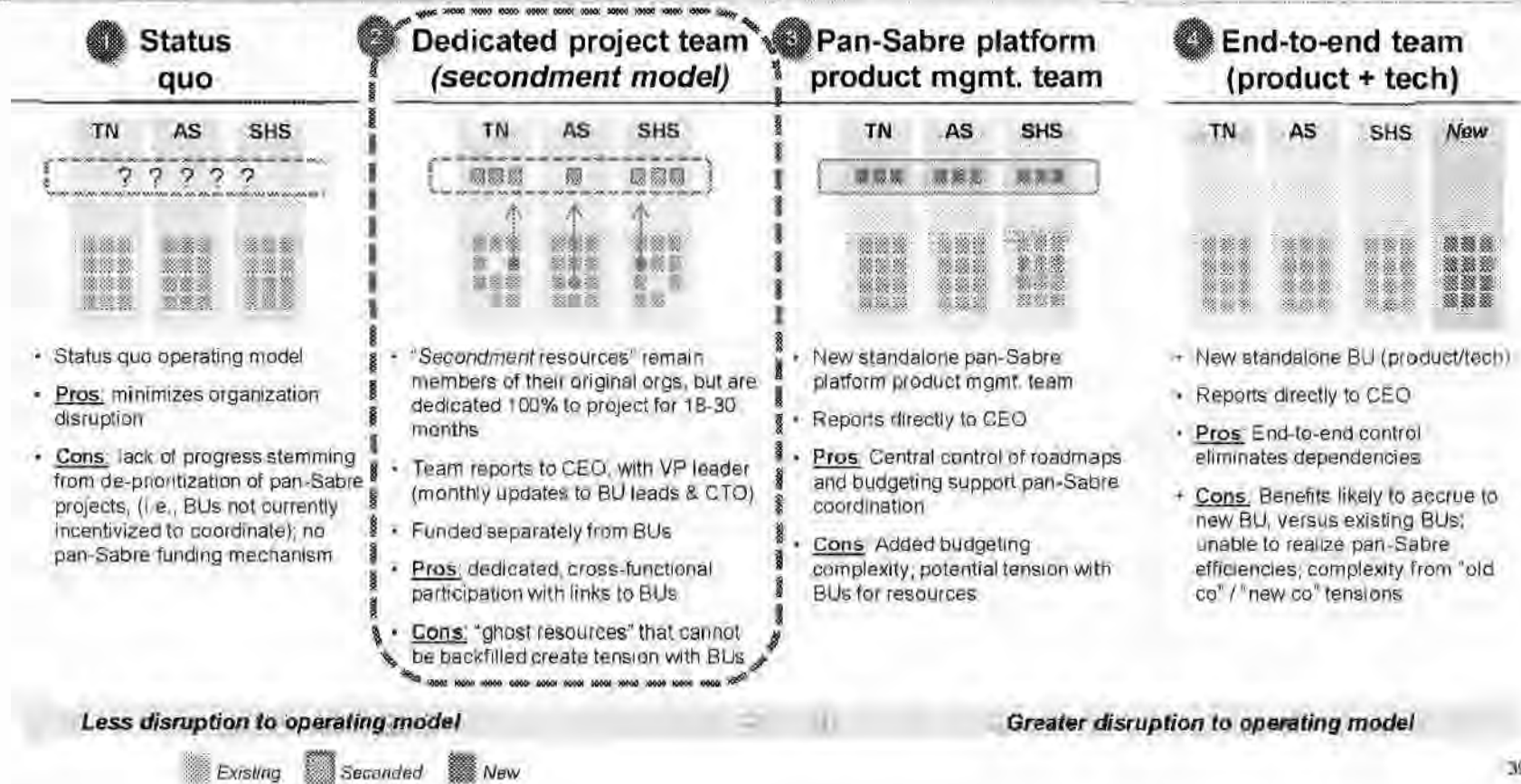
NGR/NGD roadmap considers TN and AS near-in needs, as well as Project Mercury, and puts us on a path to develop market competitive capabilities



Roadmap positions Sabre to exceed offer and order management capabilities of non-GDS competitors and significantly close gaps with Amadeus in TN/ AS



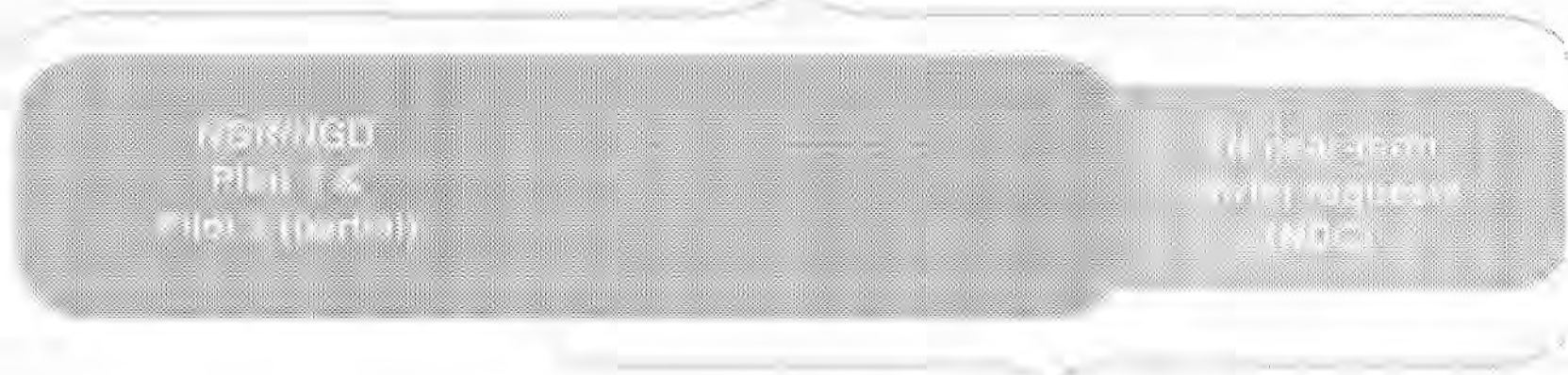
Sabre's current org structure does not support level of coordination needed to develop pan-Sabre capabilities; other options facilitate required coordination



There are two main investment options: developing full NGR/NGD and meeting TN near-in needs or focusing exclusively on TN near-in

1a Full NGR/NGD + TN near-in (*US-based dev*) [REDACTED]

1b Full NGR/NGD + TN near-in (*Geomixed dev*) [REDACTED]



2 TN near-in only (TN NDC Lvl 2)
**risks delivering NGD before NGR*

[REDACTED]

[REDACTED]

Agenda

- Project context and understanding customer needs
- Defining a “North Star” vision for retailing and distribution capabilities
- Bringing the vision to life: Fast Feedback Team
- Next steps

Next steps for Next Gen Retailing/Distribution

Determine resource commitment for 2017/2018

- Finalize internal support as a stand-alone, prioritized initiative
- Participate in 2018 budgeting process
- Obtain 2017 funding to build-out workflows and initiate development

Stand-up a transition team and identify an executive leader

- Use existing team as bridge for 2017 planning and kickoff full effort

Connect with airline partner customers

- Based on targeted list, work with sales teams to initiate contact
- Understand each airline's appetite for partnership (NDC/NGD/NGR)
- Engage on airline-specific technical details



Airline Solutions Recovery Plan

Dave Shirk & Vinit Doshi

August 15, 2017

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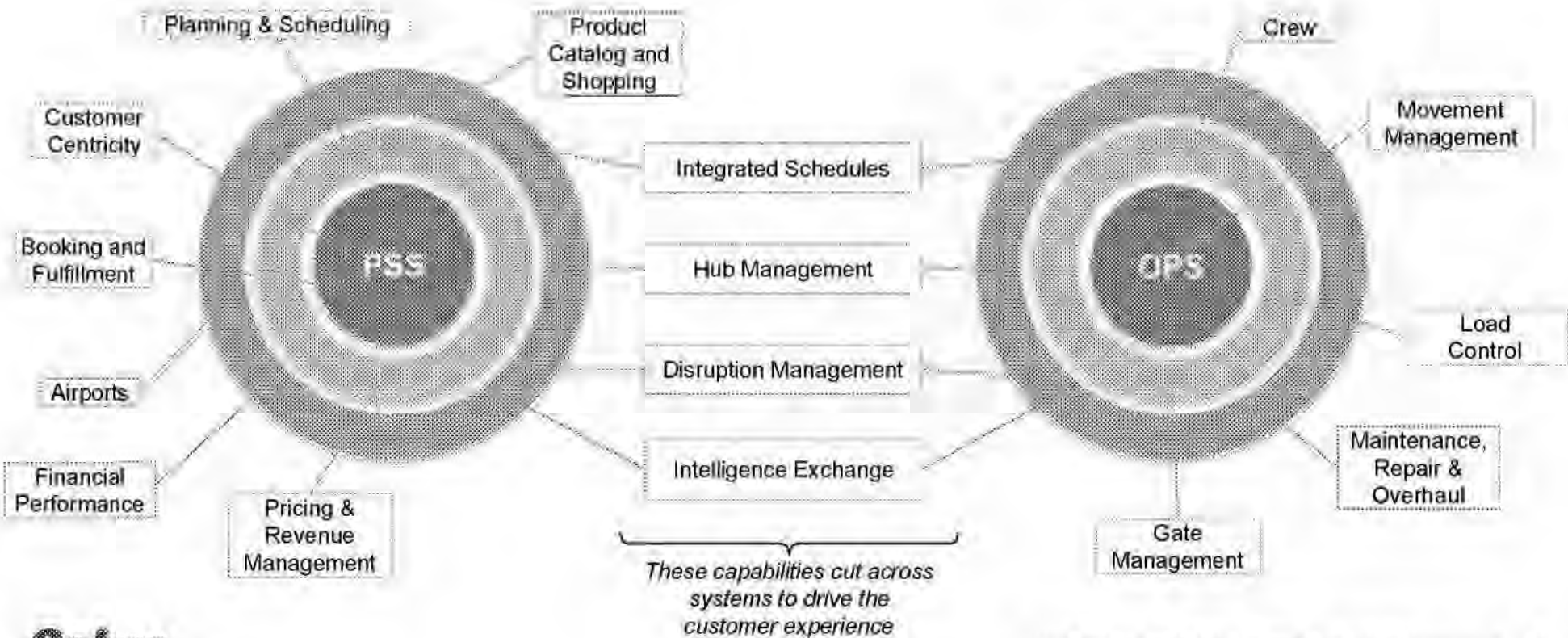
Executive summary

- [REDACTED]
- [REDACTED]
- In addition, **execution challenges** have undermined business performance and eroded customer satisfaction
- Amadeus and others continue to **aggressively attack** the market while expanding into near adjacencies
- [REDACTED]
 - **narrowing down the portfolio** to focus more on the commercial platform and reduce complexity (versions, layers)
 - implementing a **18-month get healthy plan** to recover the business with a focus on customer value
 - driving **controlled growth** by focusing on new small and mid-sized SabreSonic deals, AirVision and Data & Analytics sales
- **Investment dollars are being re-prioritized** to align with the new strategy
- MYO now shows revenue **growth stalling in 2018** with primary focus on recovery, returning to mid single-digit growth thereafter
- If we execute well, there is potential for an **additional point of growth** through the MYO period

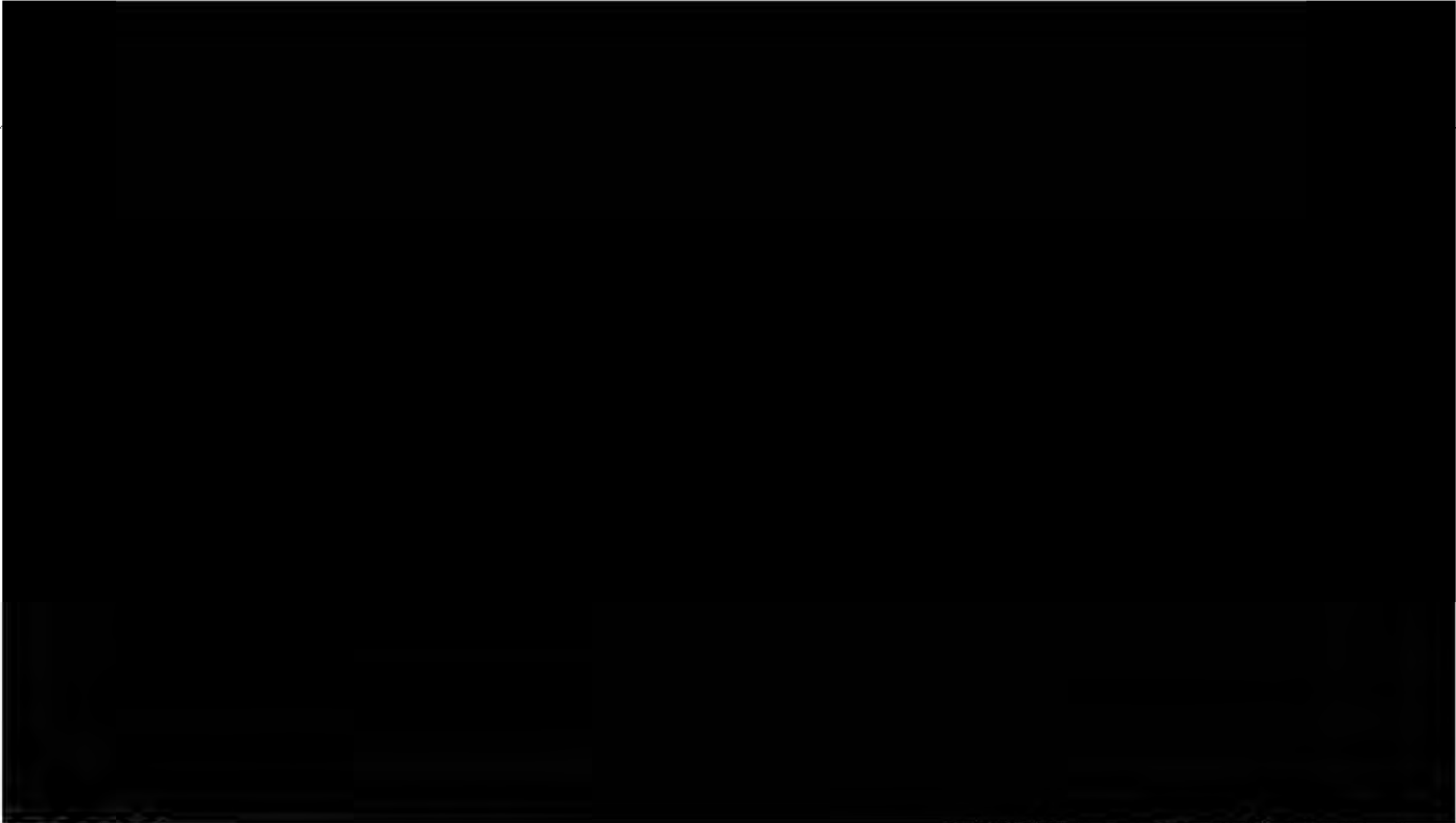
The market for airline software continues to expand and evolve

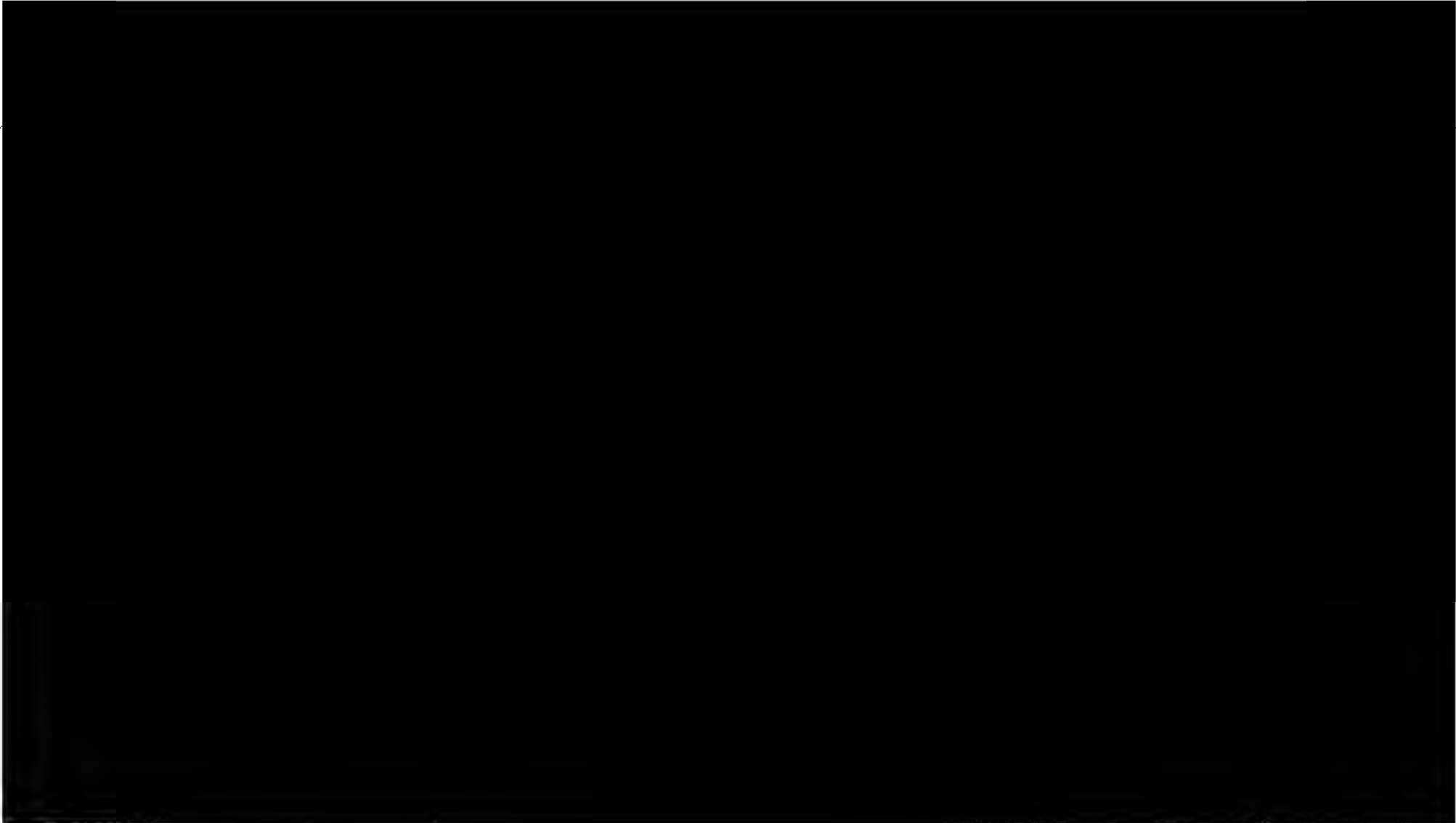
Commercial Platform

Operations Platform



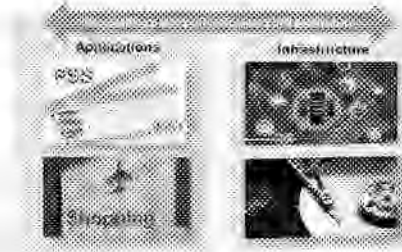






However, execution challenges have undermined business performance

Stability remains an issue



- >24 months of issues
- SabreSonic customers unwilling to sign deals
- \$50M (Sabre Corp. investment) in 2017

Top customers(23 of 25) are not satisfied

Customer	2017 CTOV	Original Plan	Revised in May	YTD Signed
Customer 1
Customer 2
Customer 3
Customer 4
Customer 5
Customer 6
Customer 7
Customer 8
Customer 9
Customer 10
Customer 11
Customer 12
Customer 13
Customer 14
Customer 15
Customer 16
Customer 17
Customer 18
Customer 19
Customer 20
Customer 21
Customer 22
Customer 23
Customer 24
Customer 25

Product health is poor in many areas

Ancillaries	Interline Branded Fares
Loyalty	Load Manager
e-Commerce	Flight Plan Manager

Significant impact on sales execution

2017 CTOV Targets (\$M)	Original Plan	Revised in May	YTD Signed
SabreSonic			
Data & Analytics			
Air Vision			
Air Centre			
Consulting			
Total(*)			

Implies need for a strategic shift from a diverse portfolio to a focused business that can be strengthened



A deeper dive reveals many foundational issues that need resolution

Customers expect whatever they want

Expectations managed to minimize customizations

Delivery terms continually negotiated

Clearly defined package and pricing

Many costly customized product extensions

Supported and upgradable extension model

Customers supported on many product versions

Enforcement of latest n-2 versioning

Typically no instrumentation

Instrumentation in all products

Multiple layers of middleware and orchestration

Aligned reference architecture

Customers impacted by technology decisions

Technology roadmap that drives decisions across all platforms, with clearly defined impacts

<15% test coverage, with no common automation toolset

End-to-end testing, with common automation toolset

Products continue to be supported

End of life plans and premium support model

Complexity limit ability to use 3rd parties

Reference model for 3rd party ecosystem

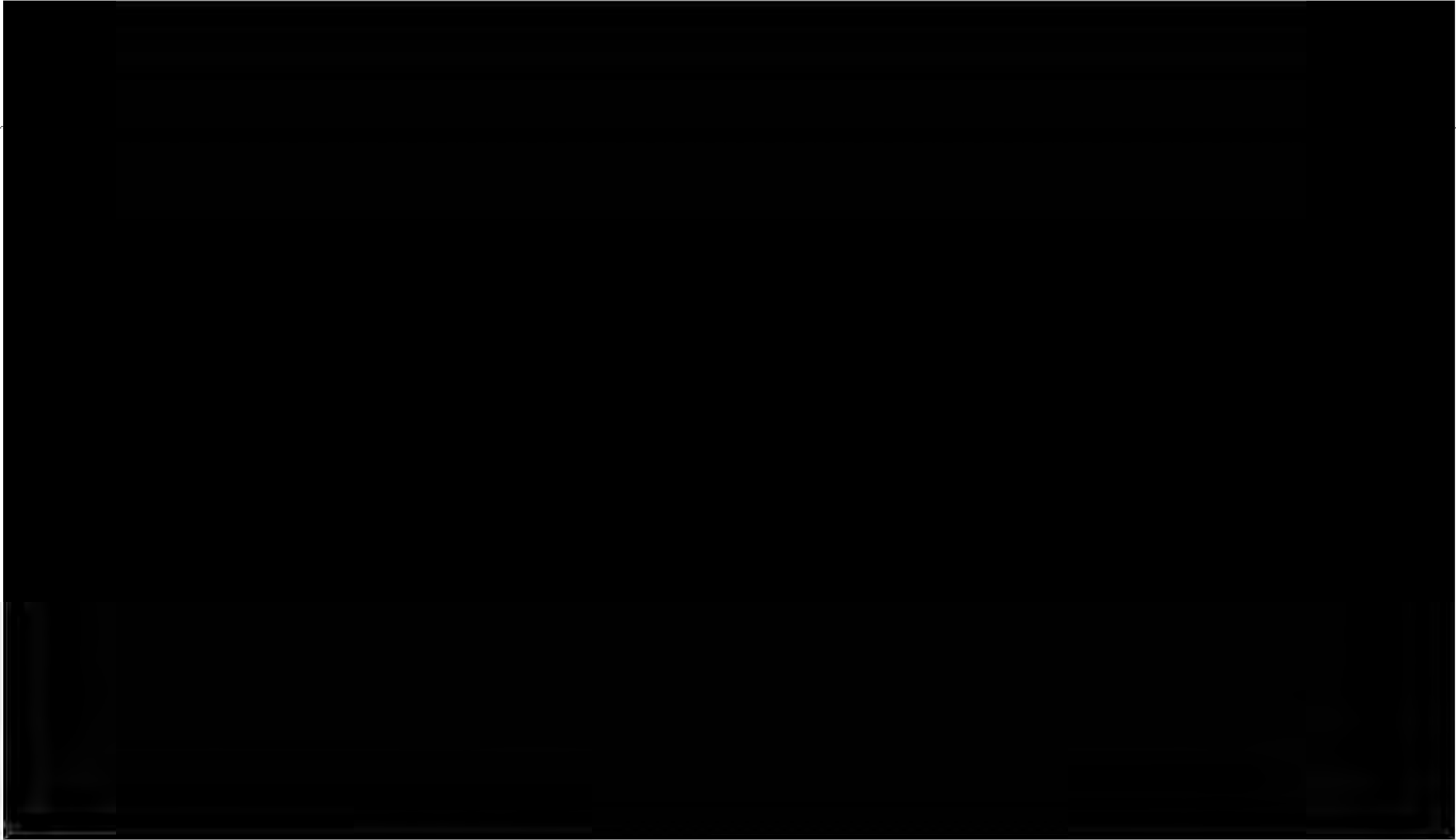
Additionally, Amadeus continues to aggressively attack the market while expanding product offerings into near adjacencies

MARKET

- Fewer major airlines in the market for PSS
- Amadeus going after SITA and Sabre
- RFPs combining GDS/PSS financials
- More SabreSonic customers going to RFP
- RFPs already pushing for NGD/NGR

AMADEUS PRODUCT

- Portfolio continues to expand
- Navitaire-to-Altea path created
- Catching up in customer centricity
- Building platform to compete with IX
- Partnership with Optym
- Architecture enables simpler deployment





Our investment priorities are shifting from chasing new revenue streams to customer/product recovery and controlled growth

Deal-Driven Revenue Growth

- Focus on functionality to satisfy deals
- Tech investment de-prioritized

Revenue Growth With Directed Development

- Sabre vision/strategy/roadmap sold to customers
- Less customer-driven, but still functionality-driven and contractually obligated

Customer Value Focus

Rationalize the Portfolio

- Optimize for full P&L/FCF rather than primarily revenue growth
- Fix the SDLC/factory

Get healthy plan

- Recover customer relationships
- Improve stability and reliability
- Address solution gaps

Controlled Growth

- Sell ready solutions (IX, AirVision) to non-SabreSonic customers
- Package SabreSonic for carriers requiring limited development work

Customer Acquisition Focus



Our strategy going forward must balance rationalizing the portfolio, recovering customer & product health, and driving controlled growth

Rationalize the portfolio

Focus Investments

- Strengthen the Commercial Platform
- Reallocate investment in some areas to self-fund improvements
- Shifting from growth to execution in AC

Get healthy plan

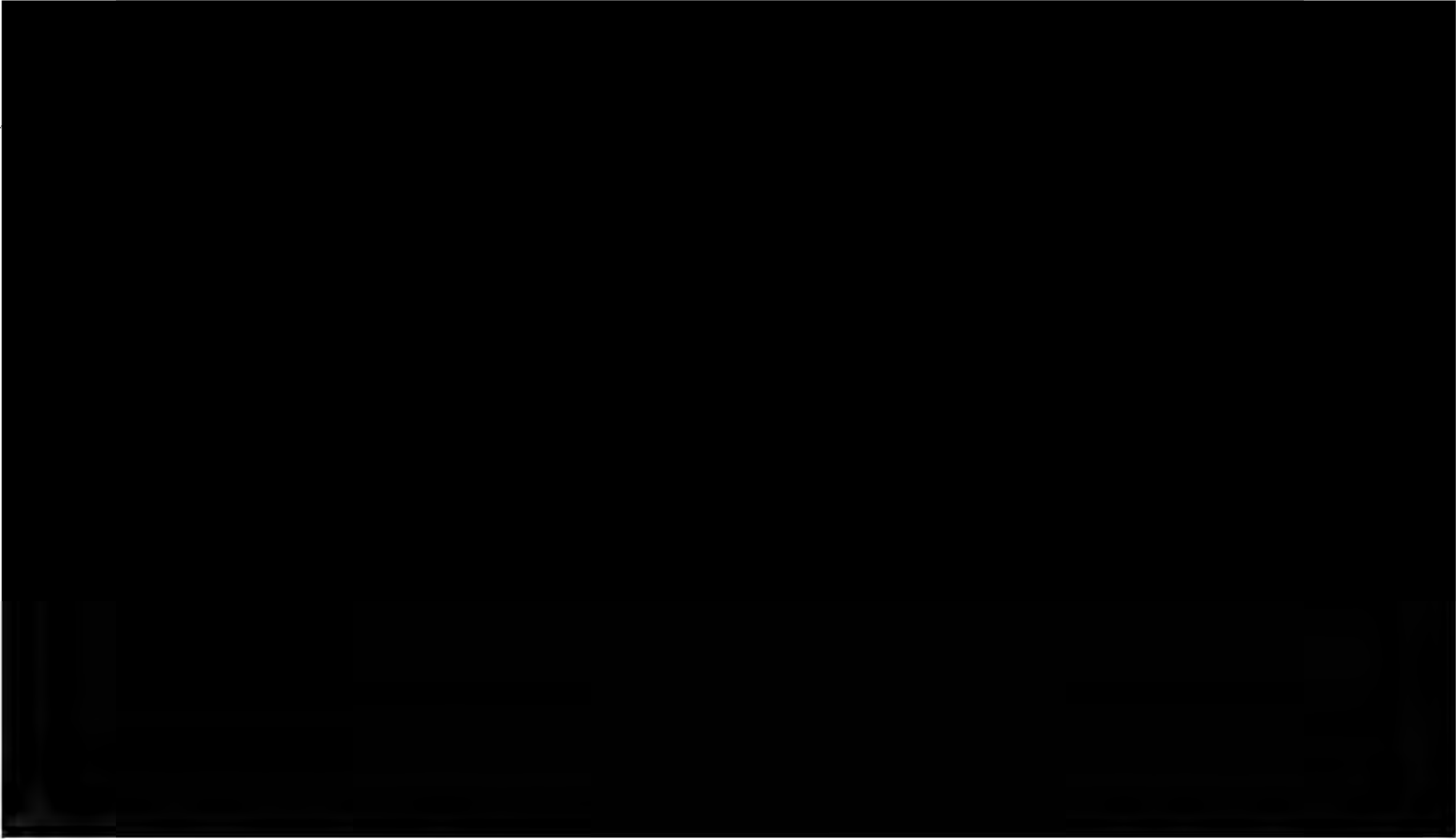
Protect the Base

- Address unhealthy relationships with top 25 customers
- Retain the revenue that is up for renewal in the next 4 years
- Establish strong base (commercial platform) from which to grow post-2019

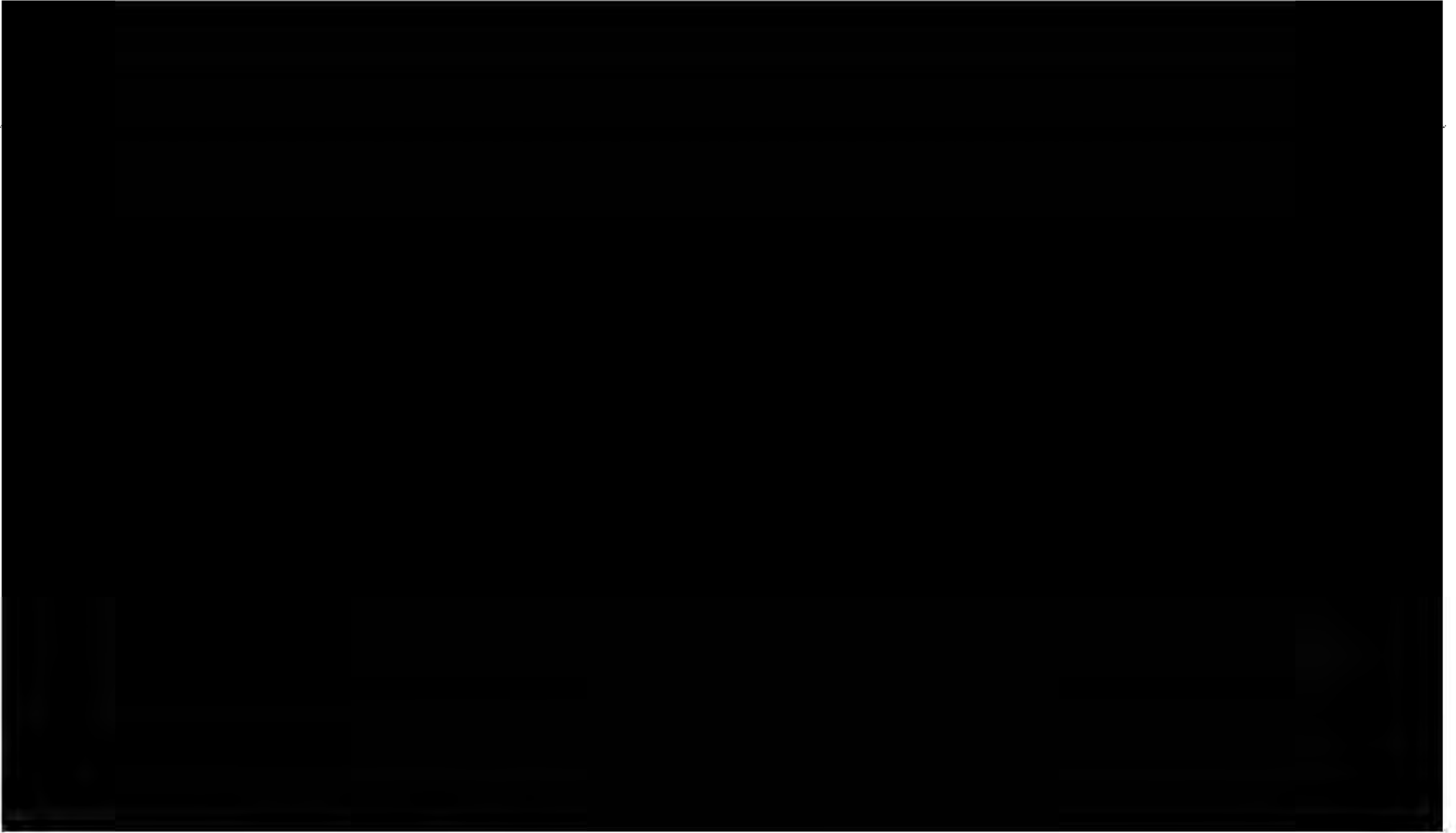
Controlled growth

Achieve Revenue Targets

- Achieve revised sales targets to provide 4.3% growth in MYO period
- Focus on selling IX and AV products to non-SabreSonic customers
- Sell to small and mid-size carriers that have limited development work



[Redacted]



[Redacted]

We are implementing an 18-month Get Healthy Plan

FIX THE BASICS

6

months

- Establish and begin execution of “get healthy” product plans
- Execute initiatives to improve stability
- Implement customer recovery plan
- Develop path to customer upgrades

STABILIZE RELATIONSHIP

12

months

- Perform thorough architectural review
- Deline architecture and convergence plans
- Develop SDLC process / implementation plan
- Optimize technology teams

PLAN FOR GROWTH

18+

months

- Address architectural issues
- Define and execute prioritized innovations
- Identify long-term plan for growth

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First phase of the get healthy plan focuses on customer and product recovery, prioritizing the top 25 customers and most troubled products

Customer Action Plan



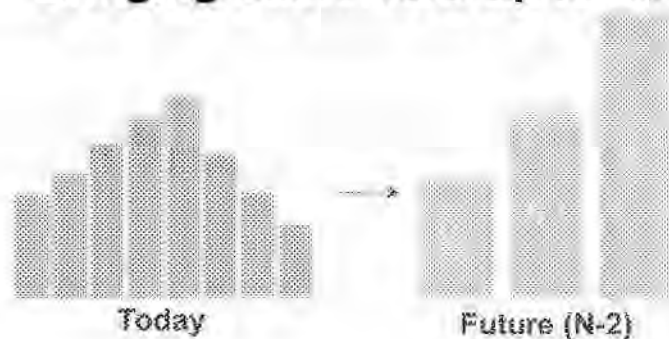
- Specific action plans
- 6 customers so far
- All 25 by September

Product Recovery Roadmaps



- Re-prioritized
- 9 products so far
- Tracked around specific objectives

Bringing Customers Up to Date



Tying Activities to Customers

View all products (100) with 500+ sales in 2014 (100%)

Product	Product Objective	Nov 2014	Dec 2014	2015	Summary	NA	EU	AP	LA	SA
PROD1	Improve customer loyalty	100%	100%	100%	100%					
PROD2	Reduce customer churn	100%	100%	100%	100%					
PROD3	Improve customer service	100%	100%	100%	100%					
PROD4	Reduce customer complaints	100%	100%	100%	100%					

View all customers (100) with 50+ sales in 2014 (100%)

Customer	Current Status	Product	Ready for Next Deliverable	Next Deliverable Target Date	Next Deliverable	Target Dates Move Date is N.Y. to G. H. 2	Comments
CUST1	100%	PROD1	100%	100%	100%		
CUST2	100%	PROD2	100%	100%	100%		

Customer get healthy plan has begun with 6 key customers

Focus Airlines



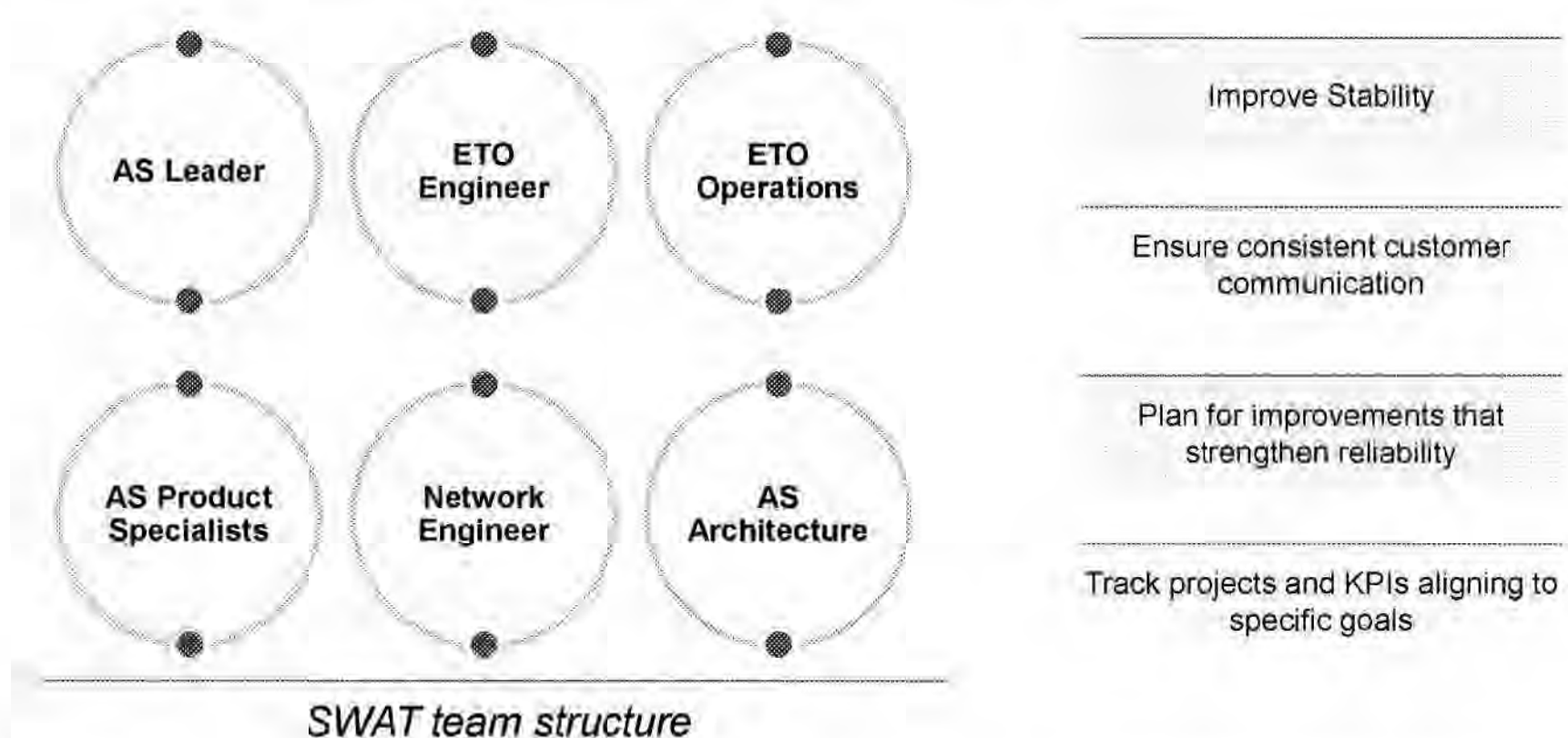
Strategic Coverage



Airline	2017 Sev 1s/Sev 2s	2017 Total Impact by Minutes	Total Products Installed	Open Sev 3's		CRs in Progress	
				Critical Impact	Total	AC / AV	SabreSonic
	15	5865	54	12	91	1	12
	45	2819	44	2	278	4	7
	12	1193	59	6	222	2	29

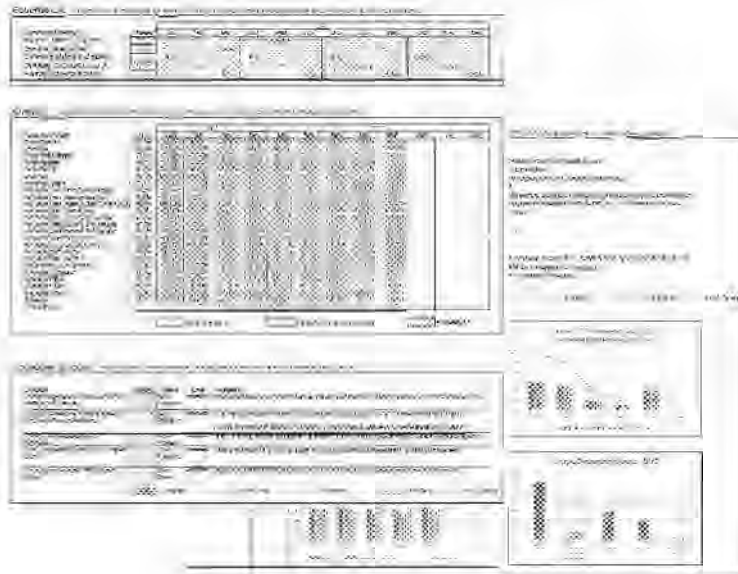


Focus customers have SWAT teams in place already

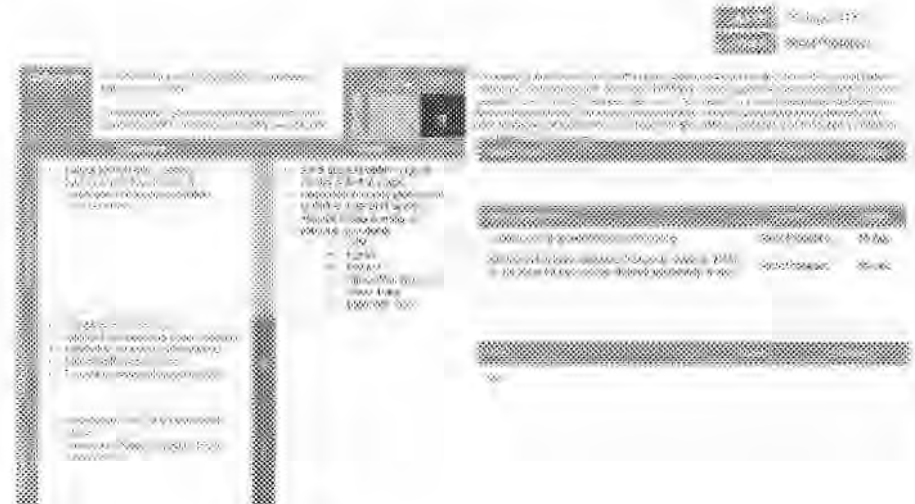


Example: [REDACTED] monitoring and 30/60/90 milestones being established

Program Dashboards

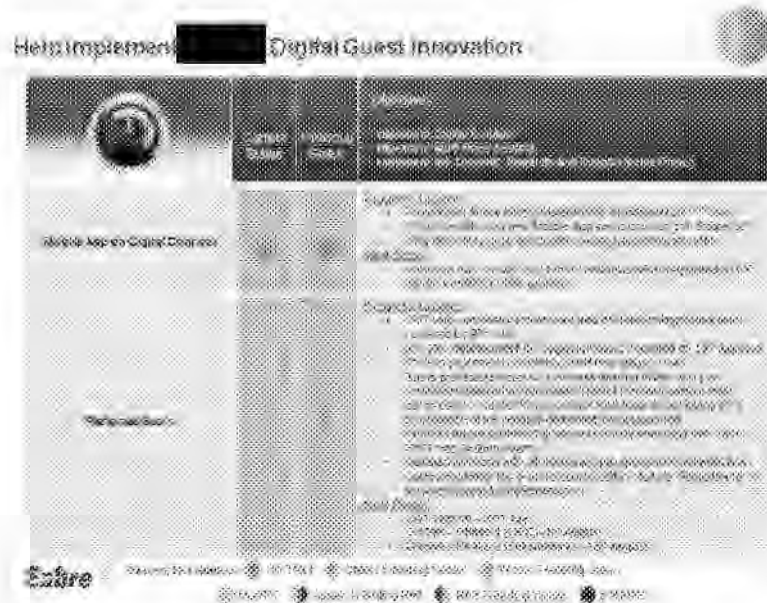


Progress Tracking

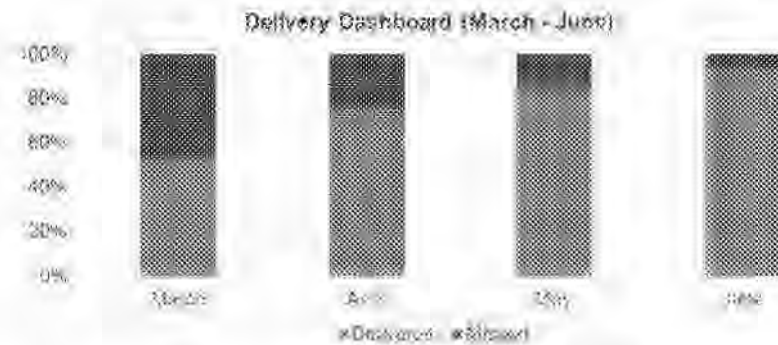


Example: [REDACTED] tracks key initiatives tied to carrier business objectives

Themed Scorecard



Program Delivery Dashboard



- Metrics represent total Delivery activity for [REDACTED] including BAU activations, development CRs and releases
- Number of successful and missed deliverables is tracked and evaluated jointly with EY each month

Path to manage top 25 customers involves putting the right teams in place for the remaining 19 carriers



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Product get healthy focuses on the first 9 'end-to-end' product improvement areas

Focus Products

eCommerce
Ancillaries
Loyalty
Interline Branded Fares
Load Manager
Interact
Flight Plan Manager
Crew Manager
FLICA

Improvements



FPM illustrates how strategically upgrading customers to manage a versioning problem can reduce SRs

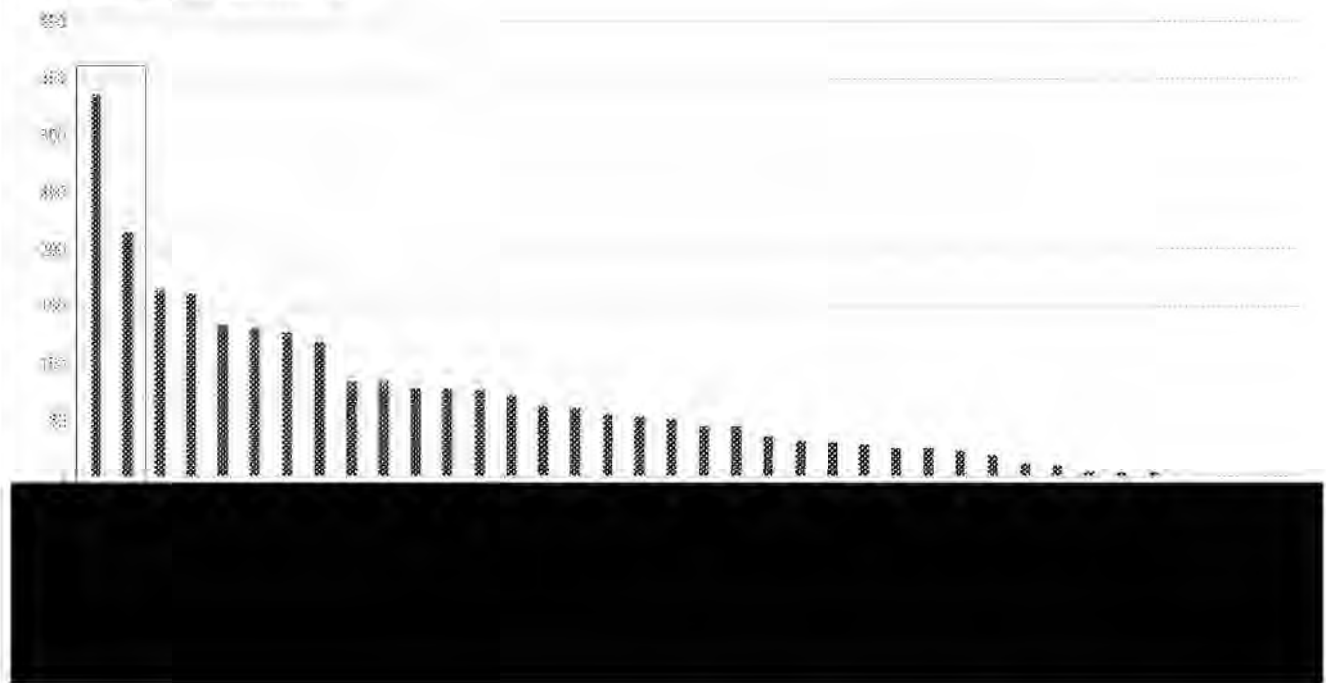
Nearly one version / customer

	Release	Mode	Customer
Newest	4.10.6	local	[Redacted]
	4.10.5	local	
	4.10.4	local	
	4.10.3	local	
	4.10.2	local	
	4.10.1	local	
	4.10.0	local	
	4.10.0.1	local	
	4.10.0.2	local	
	4.10.0.3	local	
	4.10.0.4	local	
Oldest	4.10.18	Hosted / VIE	
	4.10.11	local	
	4.10.10	local	
	4.10.1.25	Local / Hosted / LEW	
	4.9.6	Hosted / VIE	
	4.9.5	Hosted / VIE	
	4.9.4	local	
	4.8.10.1	SaaS	
	4.8.10	SaaS	
	4.8.0.41	local	
	4.8.5.0	Local / Hosted / LEW	
	4.8.5.7	local	
	4.8.4.1**	local	
	4.8.3.4	local	
	4.8.1	Hosted / VIE	
	4.1.12.4	Hosted / VIE	

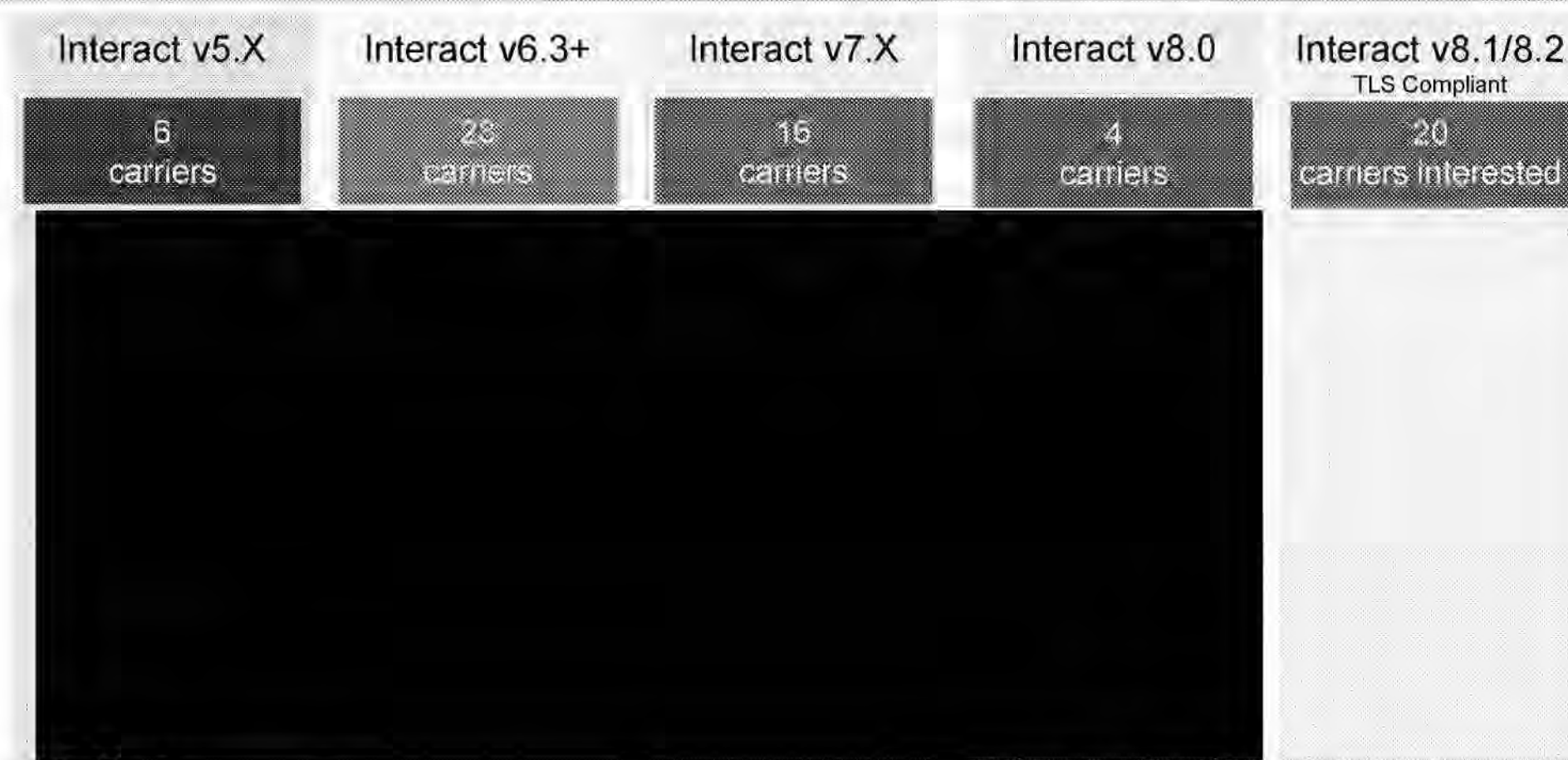
24 28

[Redacted] have opened more SRs than any other FPM customer

SR Backlog by Customer



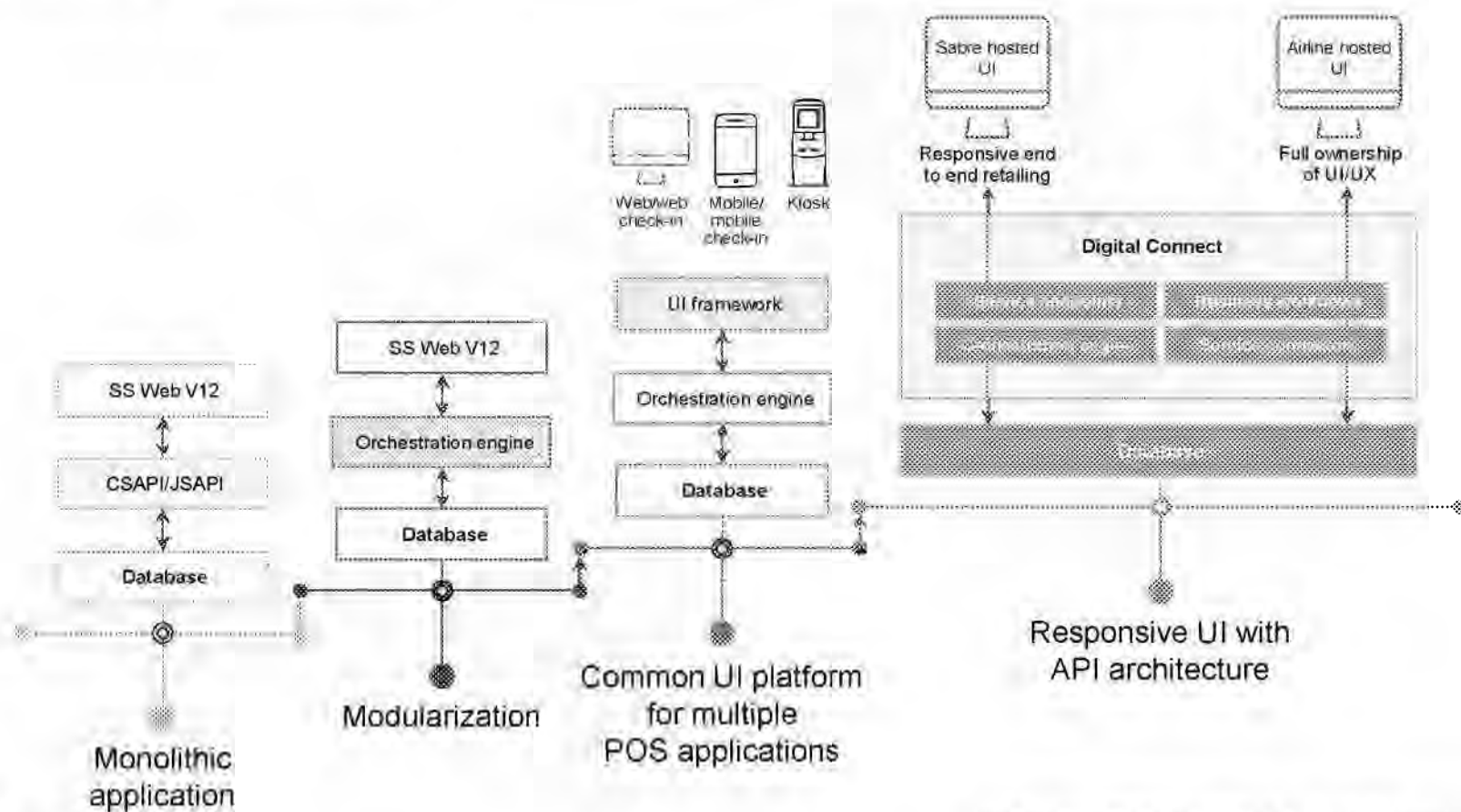
There are 27 versions of Interact distributed across over 50 carriers



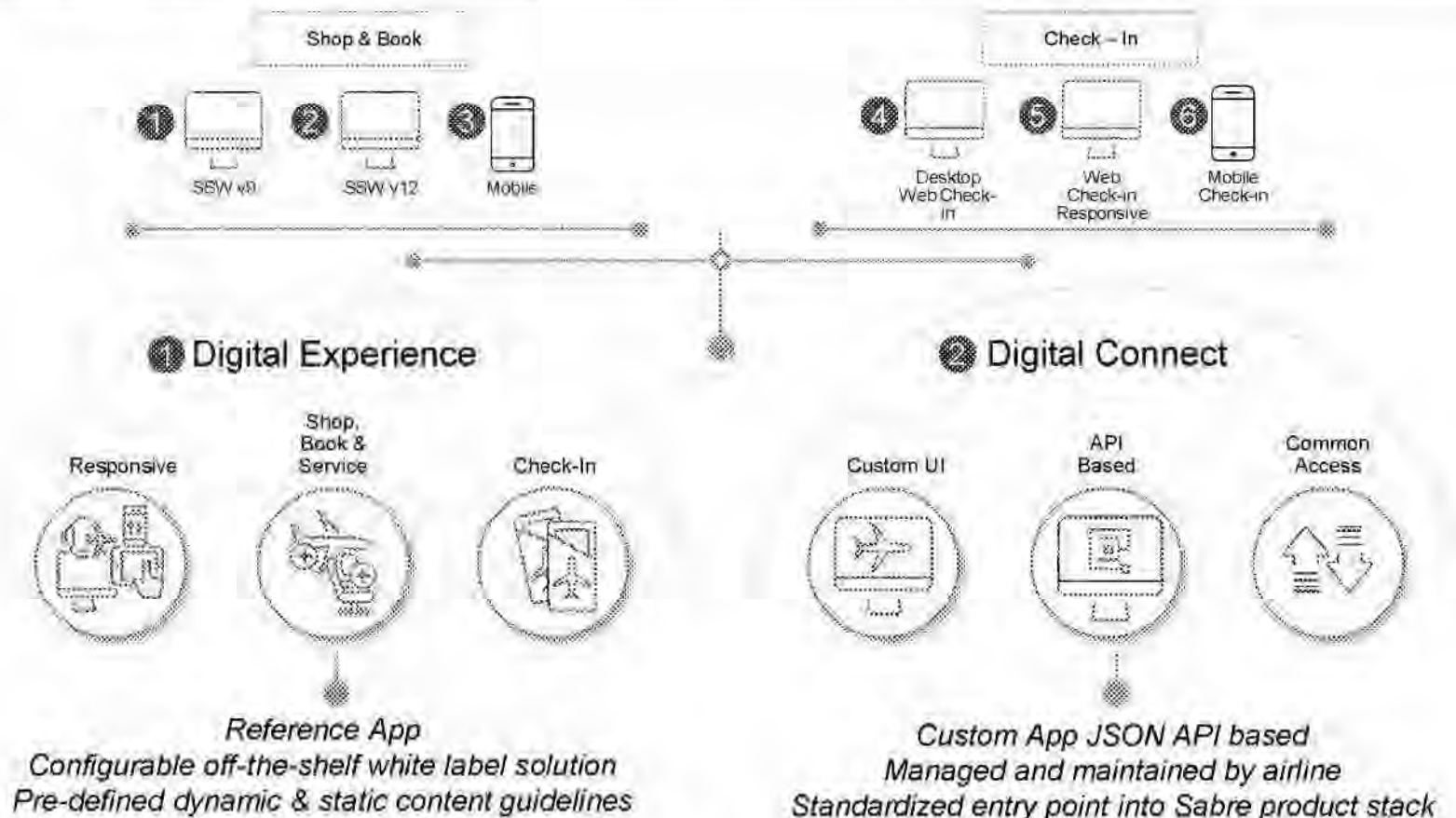
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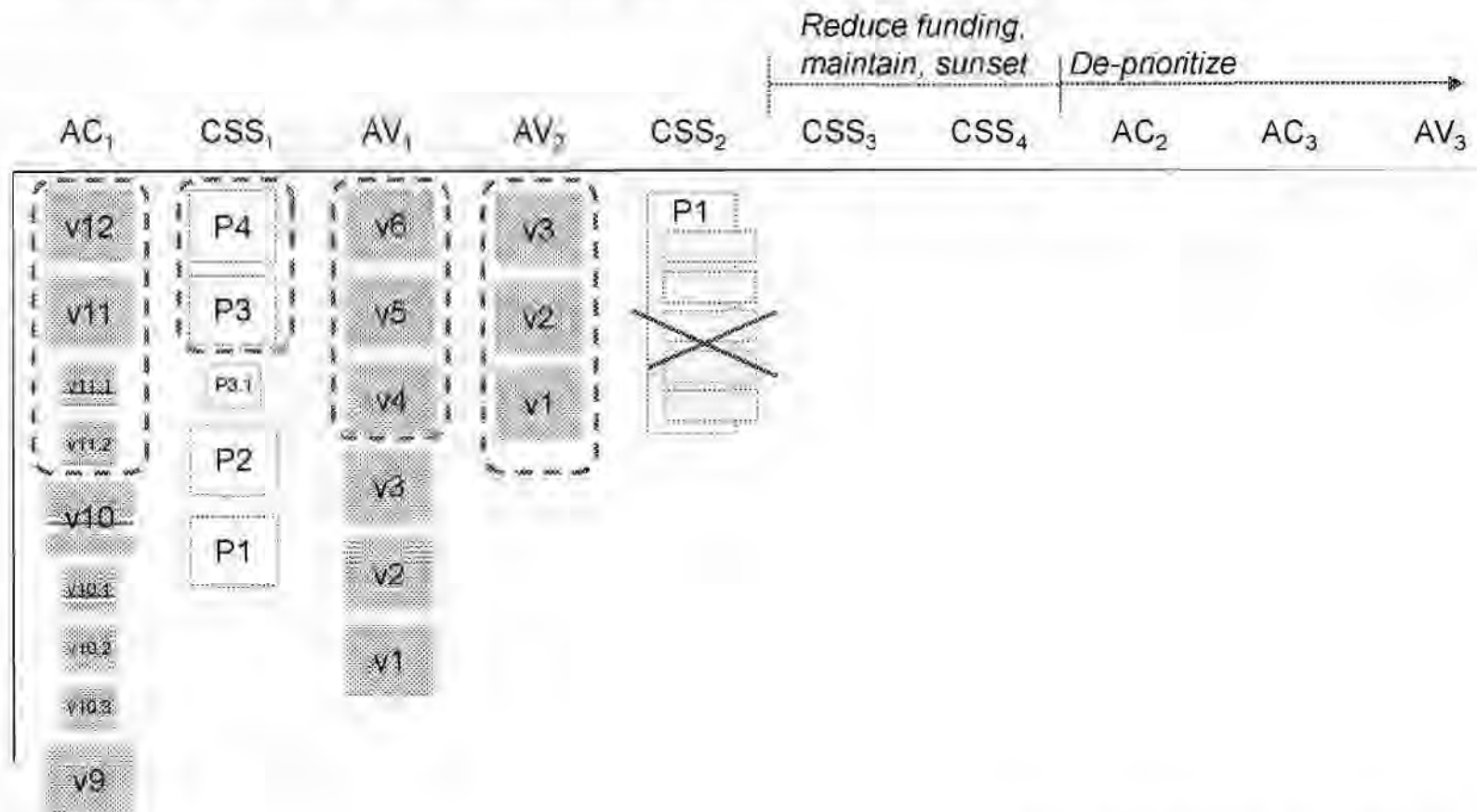
In eCommerce, solution evolution has resulted in multiple platforms with different capabilities



Platform consolidation will optimize the solution offerings for the current customer base

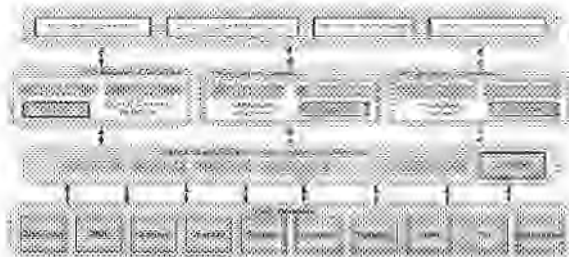


With the Get Healthy Plan, portfolio rationalization is extended to address complexity and cost of versions not just breadth



The second phase of the get healthy plan will introduce efforts around solidifying technical foundations

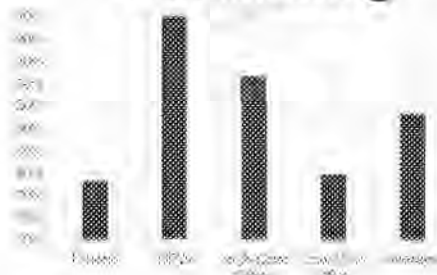
Reference Architecture



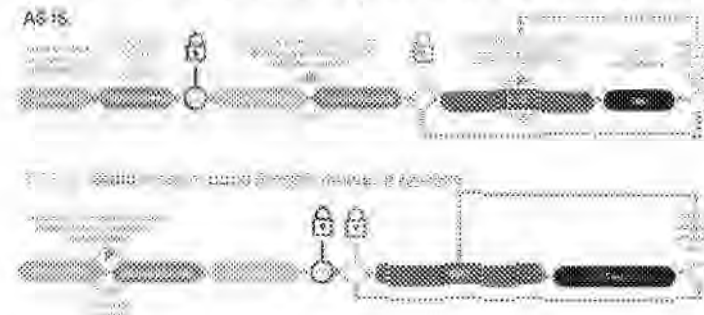
Moving Products to the Cloud

Description	Effective Monthly Cost			
	Tulsa	AWS	Difference	Difference %
Planning and Scheduling	\$101K	\$89K	-\$36K	36%
Movement Manager	\$48K	\$21K	-\$19K	43%
Revenue Integrity	\$198K	\$78K	-\$114K	58%
Revenue Optimizer	\$50K	\$22K	-\$28K	56%
AWS Enterprise Support	\$0	\$18K	\$18K	N/A
Reduced cost when turnovers are delayed	\$0	\$0K	-\$0K	N/A
TOTAL MONTHLY:	\$382K	\$193K	-\$189K	49%

Actual Cost Allocation and Multishoring

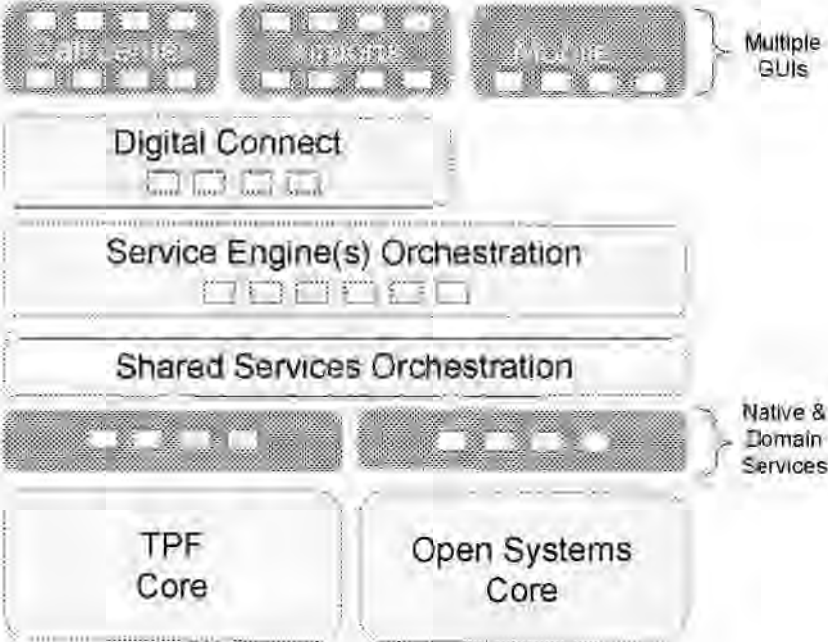


Software Development Lifecycle

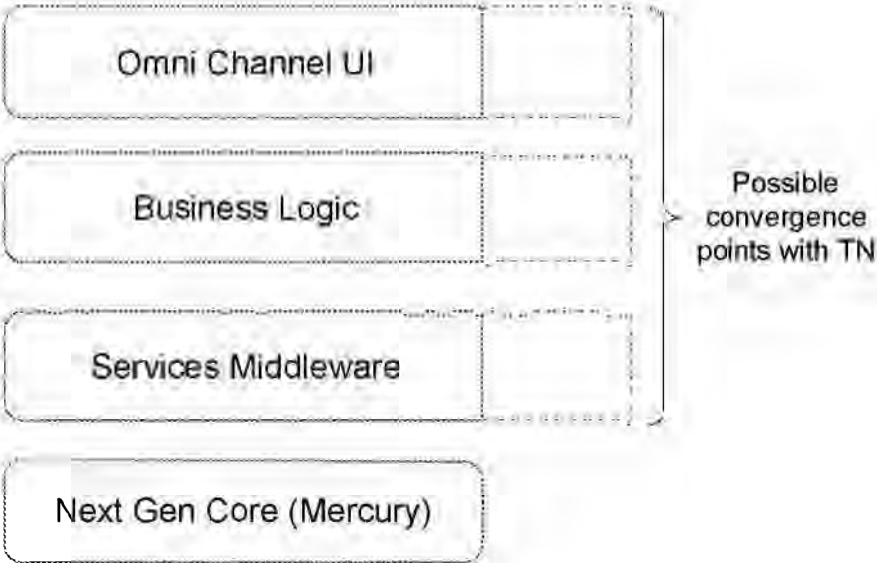


The architectural convergence must also be addressed across the portfolio

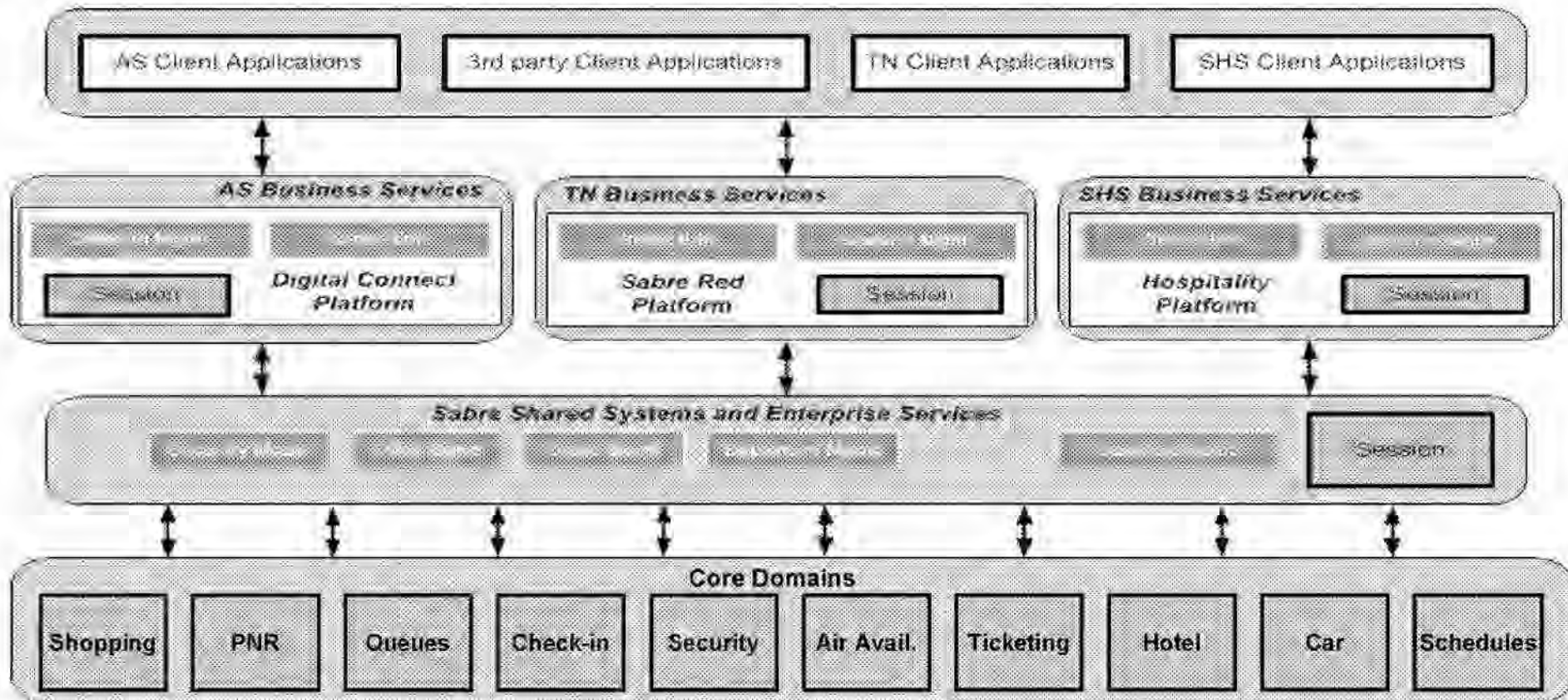
Current State



Future State

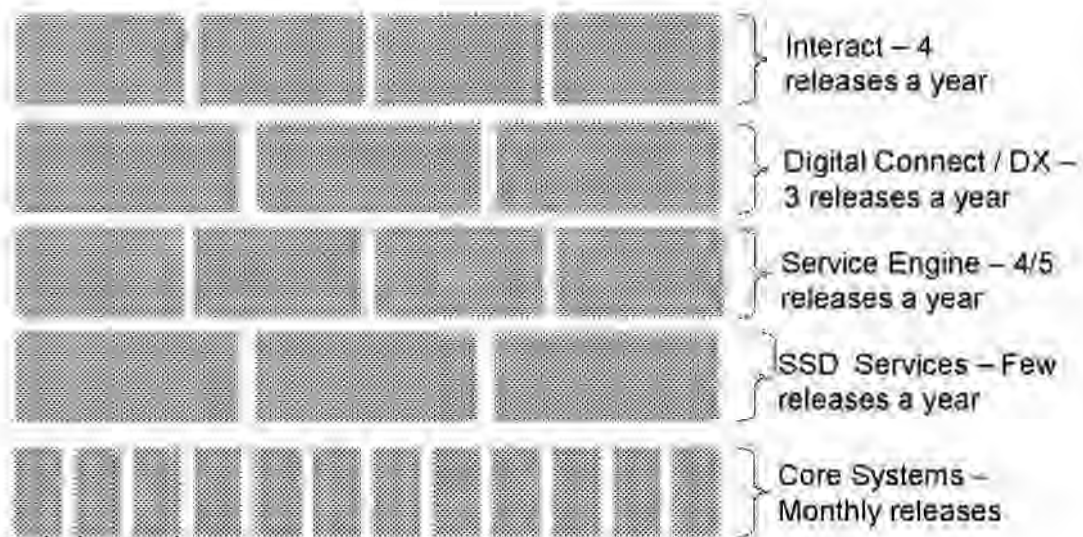


Resulting in an Industry standard reference architecture



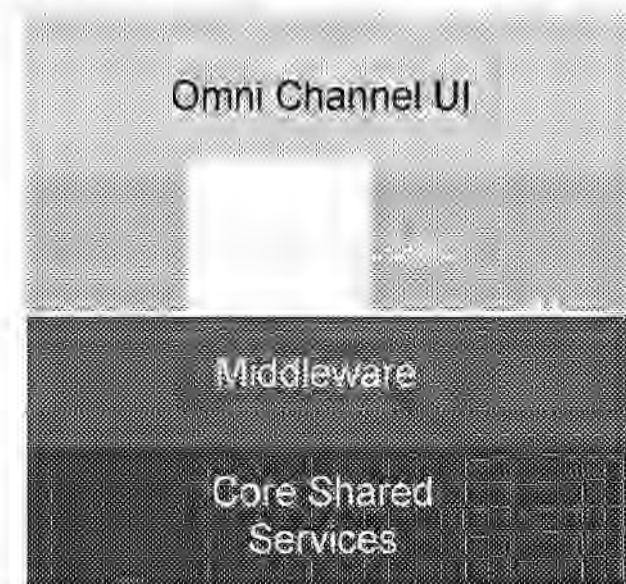
Additionally, we need to introduce release train convergence across the stack

Current state



Desired

X consolidated release trains a year



As we recover, several areas will get prioritized to strike a balance between investing in core SabreSonic versus innovating

SabreSonic

Fix ancillaries and invest in modern Airports GUI



NDC++ with NGD/NGR

Continue to build on the Dynamic Retailer and Ancillaries foundation

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Intelligence Exchange

Maintain leadership



Establish strong partnerships



Pricing & Revenue Management

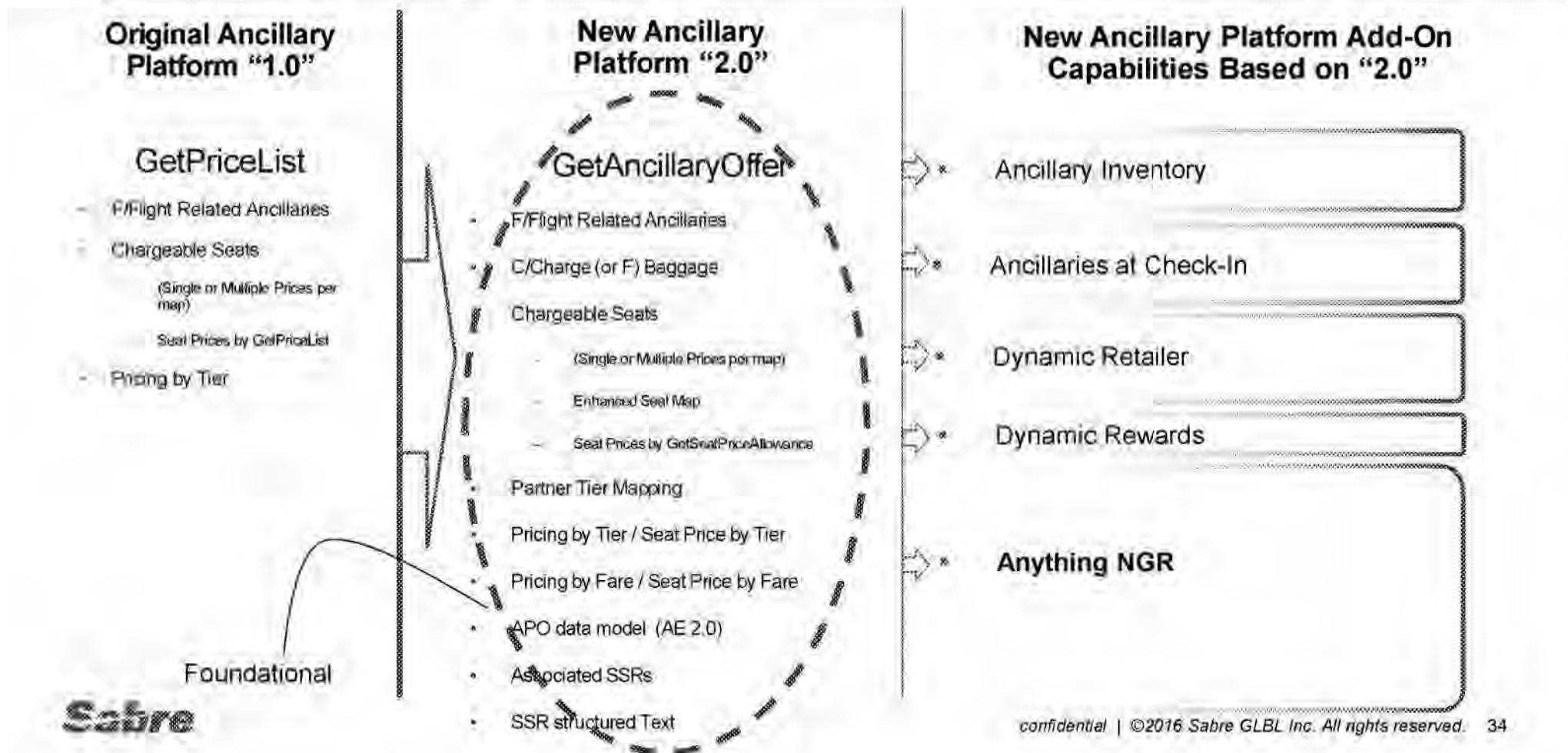


Become competitive and regain leadership

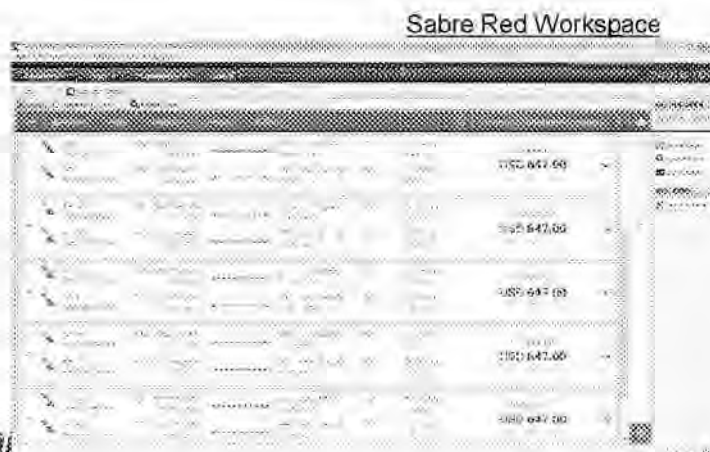
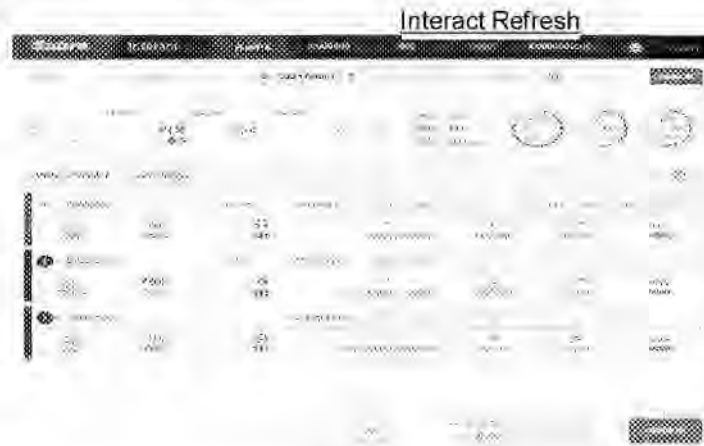


Differentiate with Strategic Pricing

SabreSonic - Ancillary Platform upgrade across the SabreSonic base lays the foundation to enable NGR



SabreSonic - Interact Refresh starting with Airports necessary to stay competitive in SabreSonic renewals and RFPs

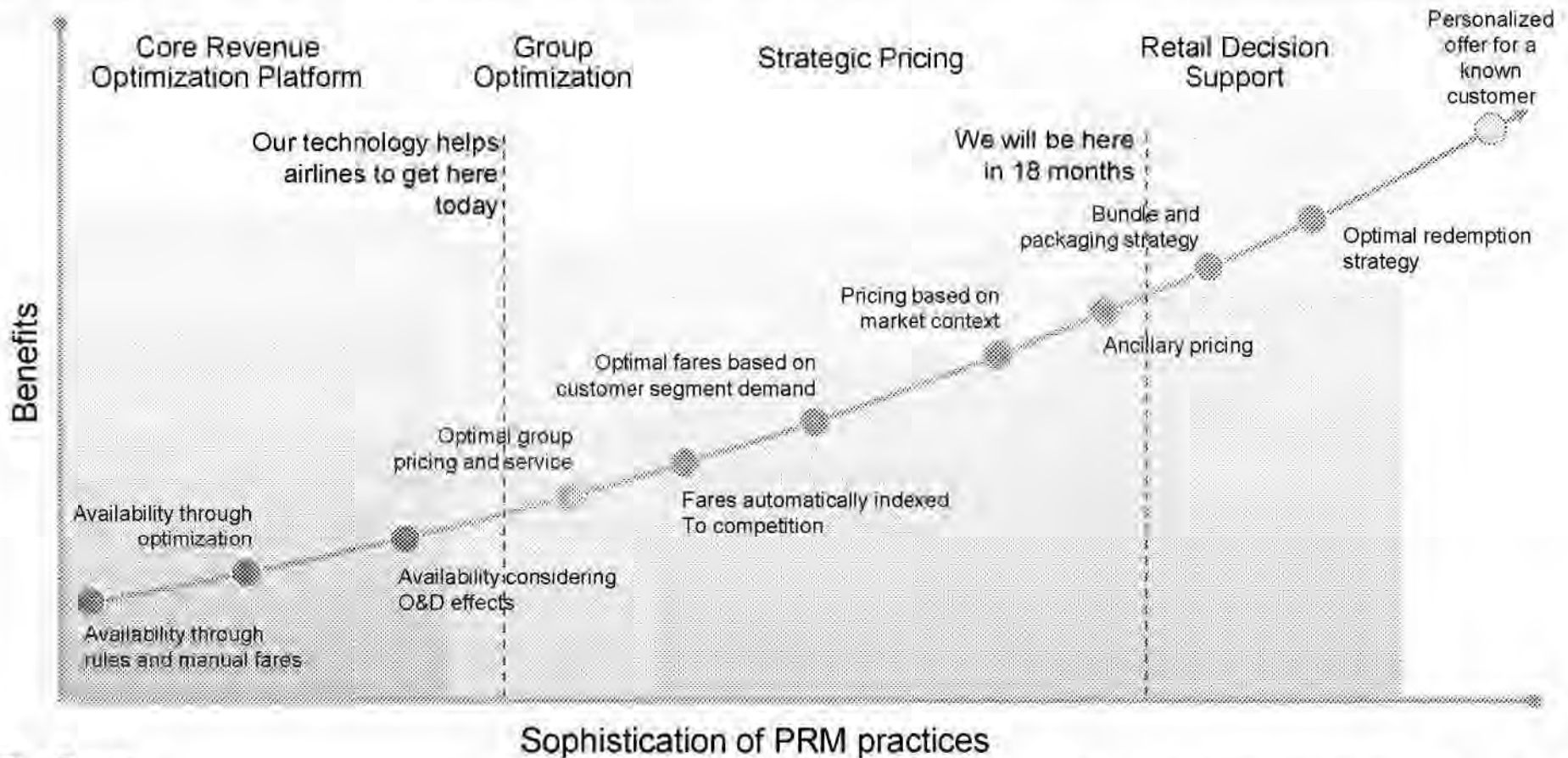


Solution Approach

- Consistent Look-And-Feel between products
- Utilize consistent GUI design principles (i.e. SPARK)
- For Call Center, utilize common design layouts already built for SRW (i.e. Shopping and Booking)
- Standardize on underlying GUI design technologies (i.e. responsive designs, CSS, XML schemas)
- Determine underlying GUI technology stack (i.e. DX)

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Pricing and Revenue Mgmt - New capabilities moves Sabre up the pricing and revenue management maturity curve



Intelligence Exchange - We are bracing the platform for future growth

Scalability and stability investments for mega-carriers



- Improve instrumentation, monitoring & alerting
- Limit queue buildups
- Remove bottlenecks to improve scalability
- Fix the tools that work 80% of the time
- Automate manual deployment steps
- Improve testing

Sabre

Aggressively sell existing value proposition to new airline partners

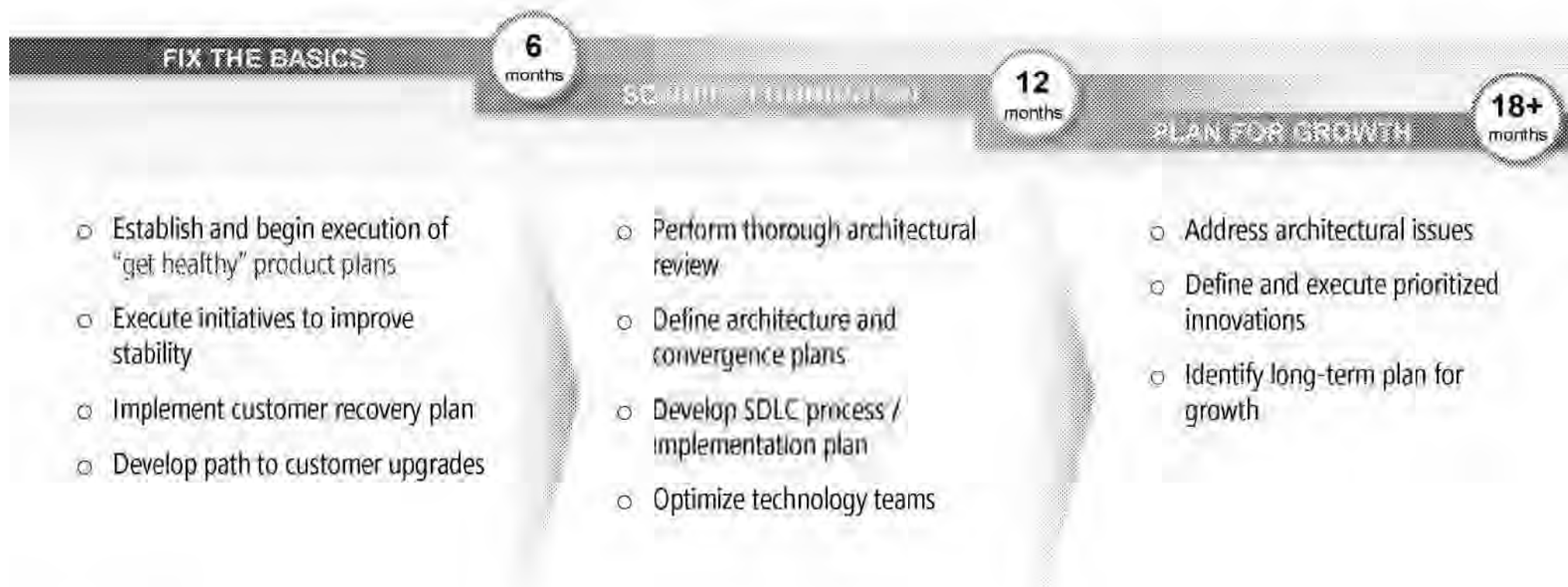
Existing Revenue Integrity customers:



Leverage our Amadeus integrations to sell more into the customer base:



To recap, 18-month get healthy plan will reposition AS for future growth



Sales and go-to-market efforts will need to be refocused, taking into account product and customer issues

Protect The Core/Drive Renewals

- Execute on current commitments [REDACTED]
- Proactively renew current carriers to avoid RFPs
- Provide basic health checks on a regular basis going forward
- Create strategy/planning around providing services versus discounts

Fill SabreSonic Slots

- *Small* Carrier Mar 2019*
- *Small* Carrier Aug 2020*
- *Medium* Carrier Sept 2019*
- *Small* Carrier Oct 2020*
- *COPA March 2020*

Sell Targeted Solutions to Non-SabreSonic Customers

- Focus on selling IX and AV products to non-SabreSonic customers
- Continue selling AC products to make the asset more attractive



Note: *In the MYG, Small est. 500k-1M PBs, Medium est. 10M PBs

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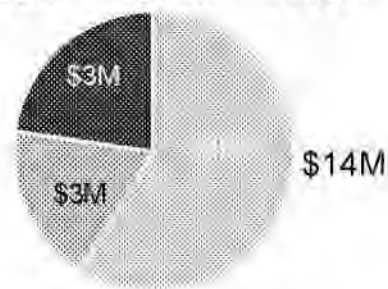
The sales pipeline includes pursuits for \$137M in CTOV for selected solutions



NP&S

% Probability

◉ < 50% ◉ 50-75% ◉ > 75%



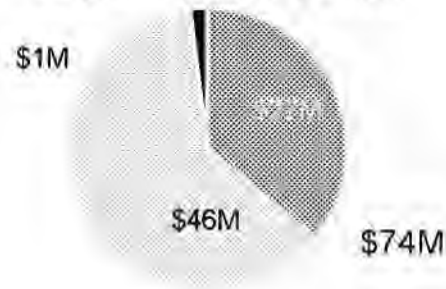
Carriers with >50% prob.



IX

% Probability

◉ < 50% ◉ 50-75% ◉ > 75%



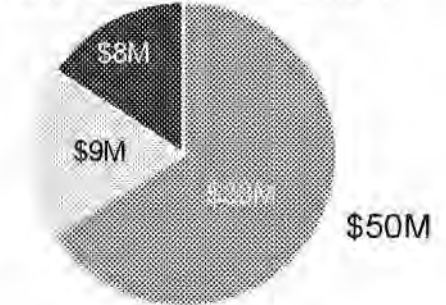
Carriers with >50% prob.



RO

% Probability

◉ < 50% ◉ 50-75% ◉ > 75%

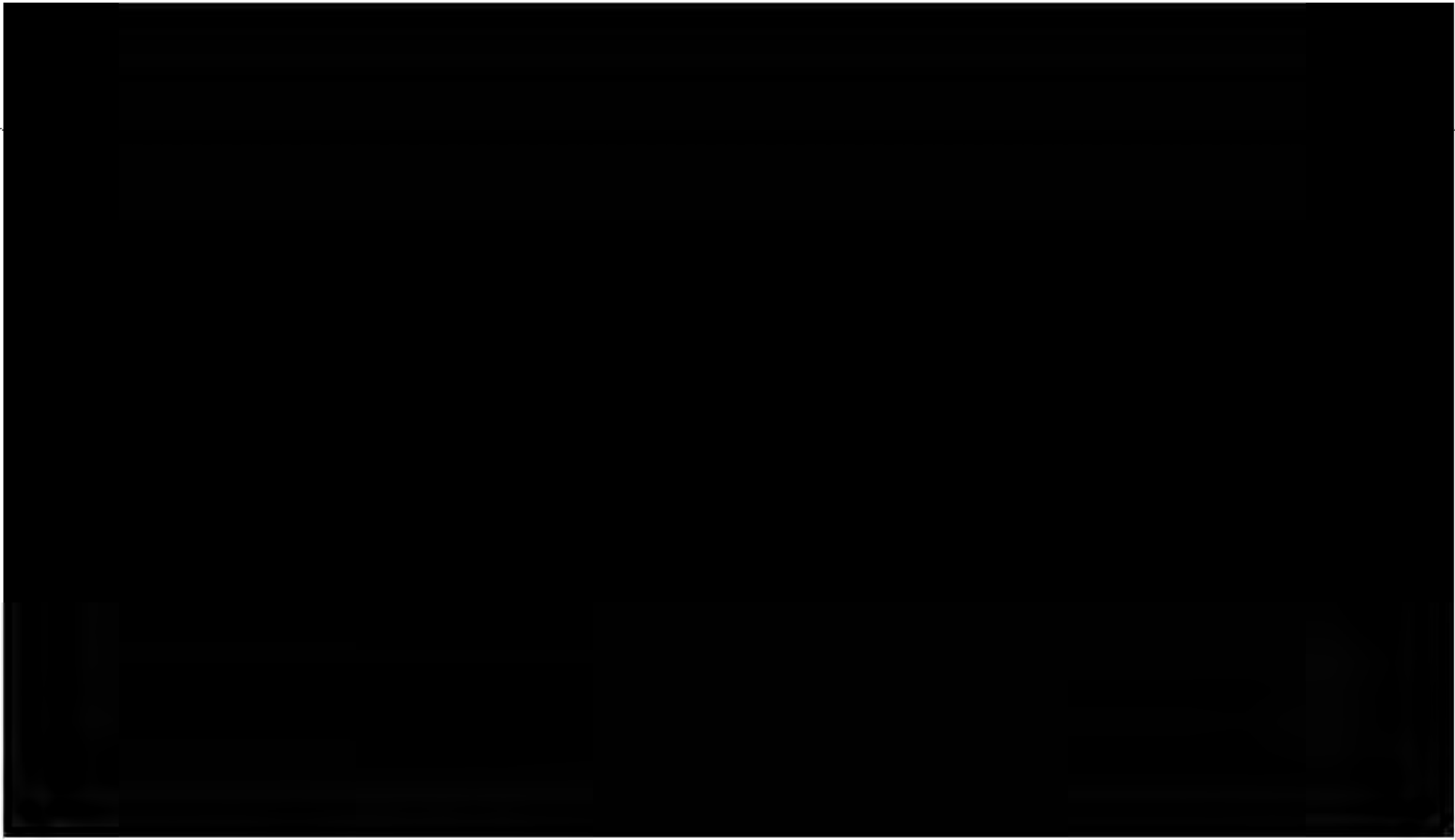


Carriers with >50% prob.



Note: Sales incentive plan has been adjusted to reflect new strategy. Pipeline reported for this presentation does not include opportunities for carriers that are also evaluating SabreSonic deals.

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Get Healthy plan results in MYO aligned to show flat performance in 2018 with primary focus on recovery, returning to mid single-digit growth thereafter

2020 Highlights

- Revenue of [REDACTED] CAGR from 2017-2020
- EBITDA [REDACTED] CAGR
- Op. Inc. [REDACTED] CAGR
- Free Cash Flow [REDACTED] CAGR

- Revenue build assumes 2 sold CSS cutovers and 5 unsold cutovers in 2018-2020 time frame
 - [REDACTED] new PBs to be implemented (TAM: [REDACTED] in May 2018, Cobalt: [REDACTED] in Dec 2017)
 - 2019 cutover of 1 medium and 1 small; 2020 cutover of 1 medium and 2 small
 - [REDACTED] volume adjustment as placeholder for business risk

Airline Solutions P&L Key Metrics					CAGR	vs. Jan '17 MYO			vs. Jan '16 MYO		
Year/Period	2017	2018	2019	2020	2017-20	2018	2019	2020	2016	2018	2019
Revenue	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
EBITDA	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
EBITDA Margin	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
OpInc	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
OpInc Margin	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
FCF	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]



Sources: BOD update March 2016; AS MYO Executive Review, June 2017

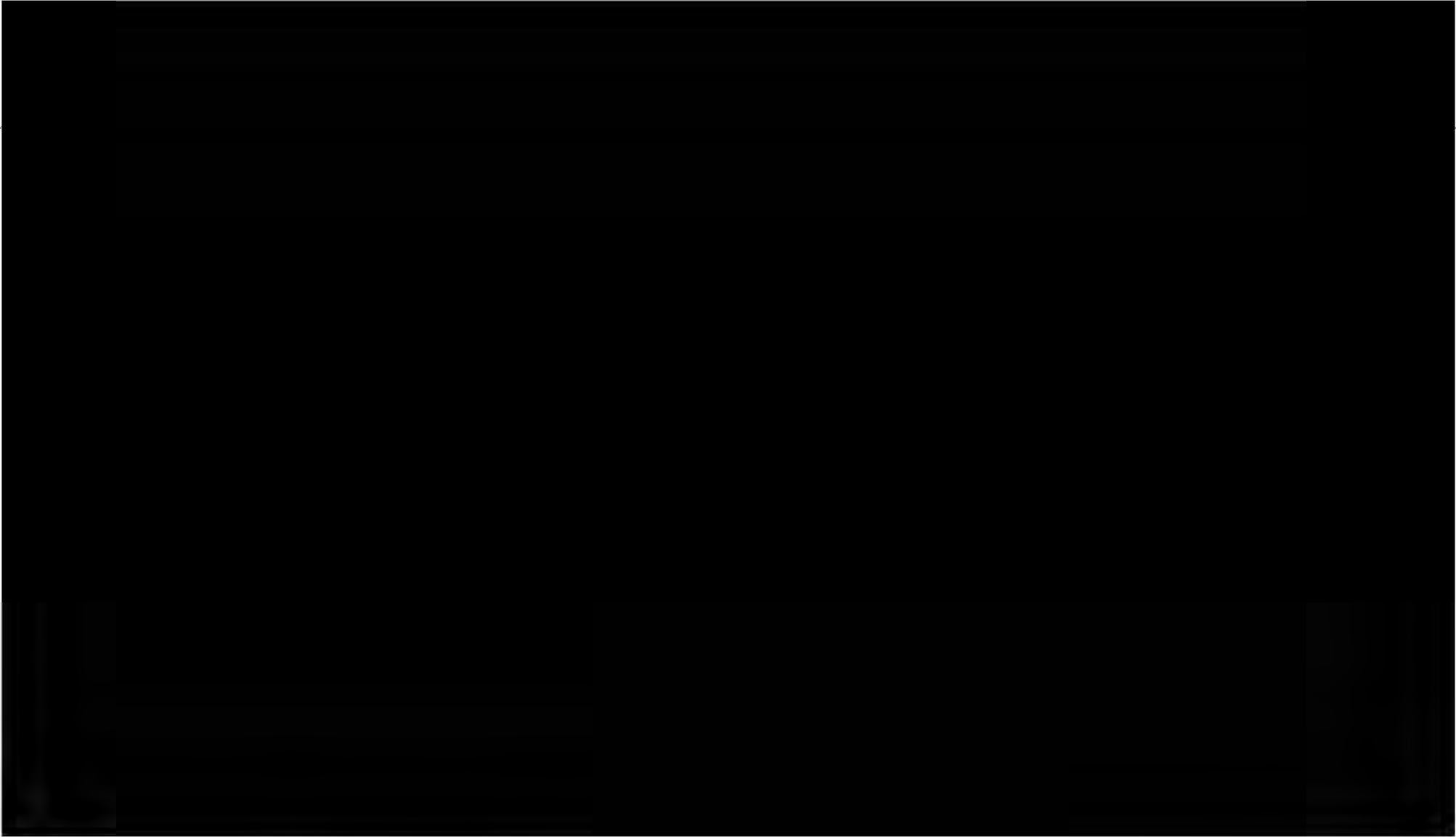
Excluding [REDACTED] is still healthy

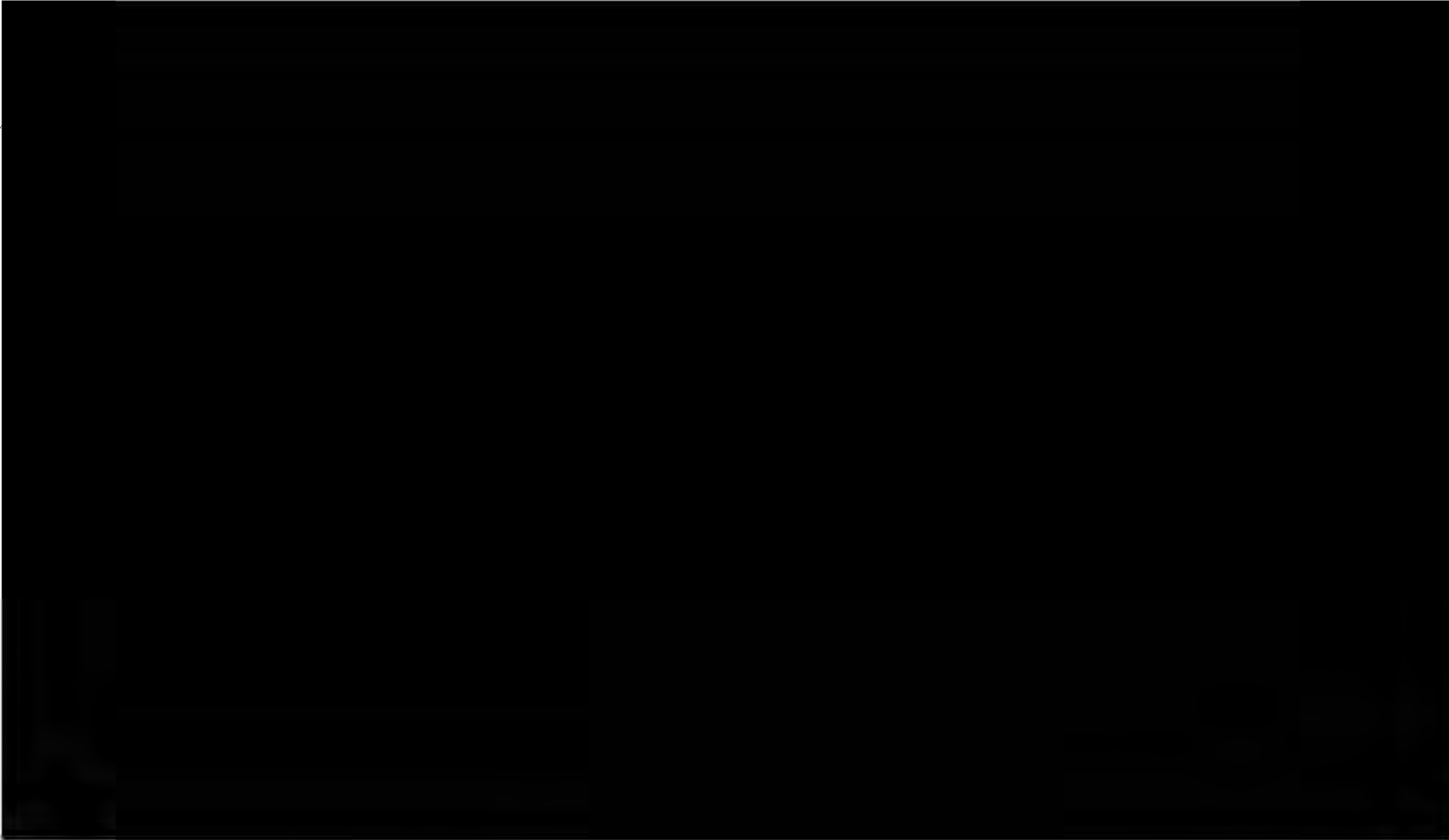
the core business

(\$ In Millions)	Airline Solutions Revenue - Current MYO							CAGR	CAGR	YoY	YoY	YoY
	2014	2015	2016	2017	2018	2019	2020	14-17	17-20	2017-2018	2018-2019	2019-2020
SabreSonic/CSS	[REDACTED]											
AirCentre	[REDACTED]											
AirVision	[REDACTED]											
Data & Analytics	[REDACTED]											
Business Consulting	[REDACTED]											
VSOE	[REDACTED]											
Total Revenue	[REDACTED]											

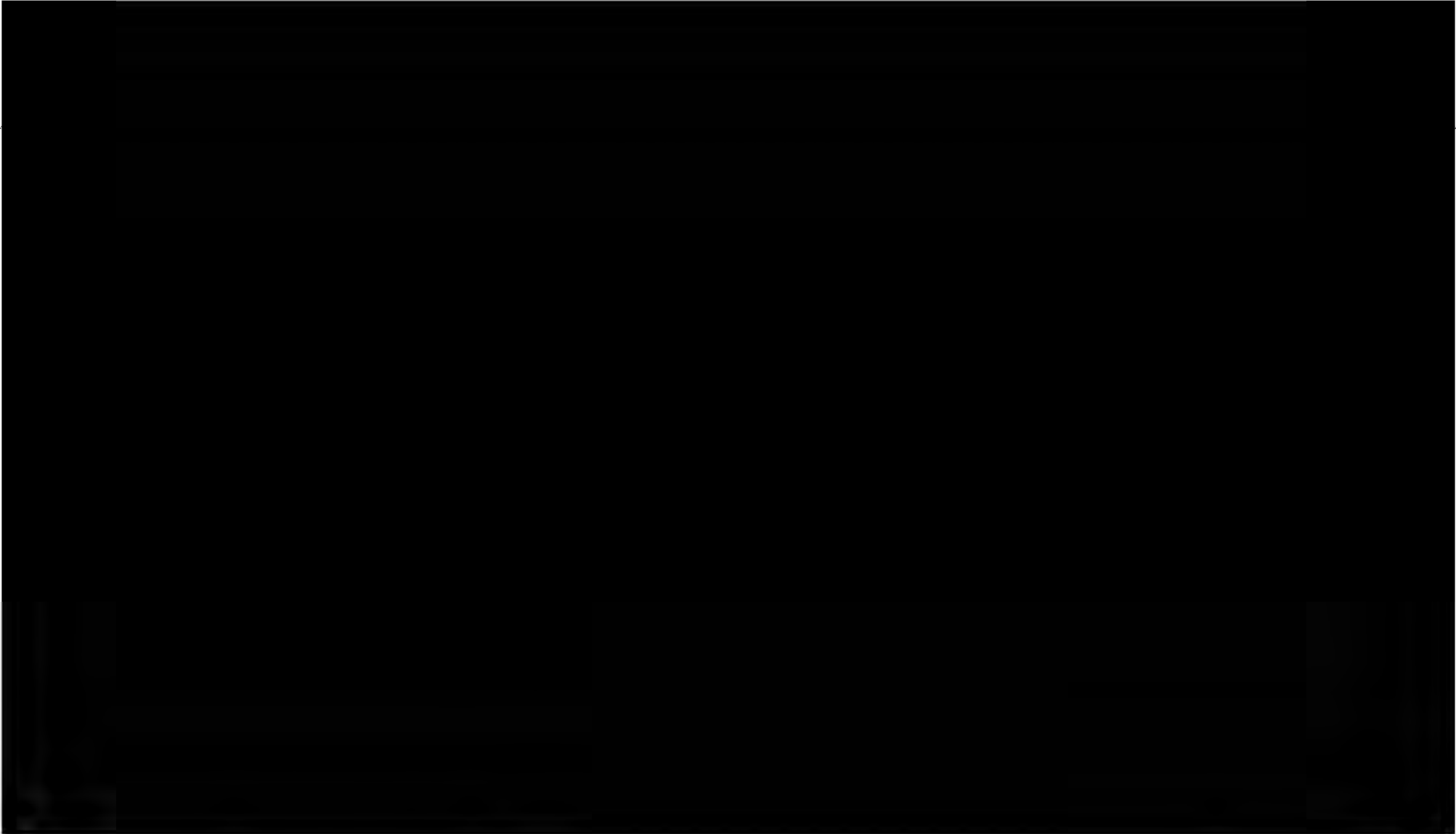
(\$ In Millions)	Airline Solutions Revenue - Net of AA, EY Family, and WN							CAGR	CAGR	YoY	YoY	YoY
	2014	2015	2016	2017	2018	2019	2020	14-17	17-20	2017-2018	2018-2019	2019-2020
SabreSonic/CSS	[REDACTED]											
AirCentre	[REDACTED]											
AirVision	[REDACTED]											
Data & Analytics	[REDACTED]											
Business Consulting	[REDACTED]											
VSOE	[REDACTED]											
Total Revenue, Net of [REDACTED]	[REDACTED]											

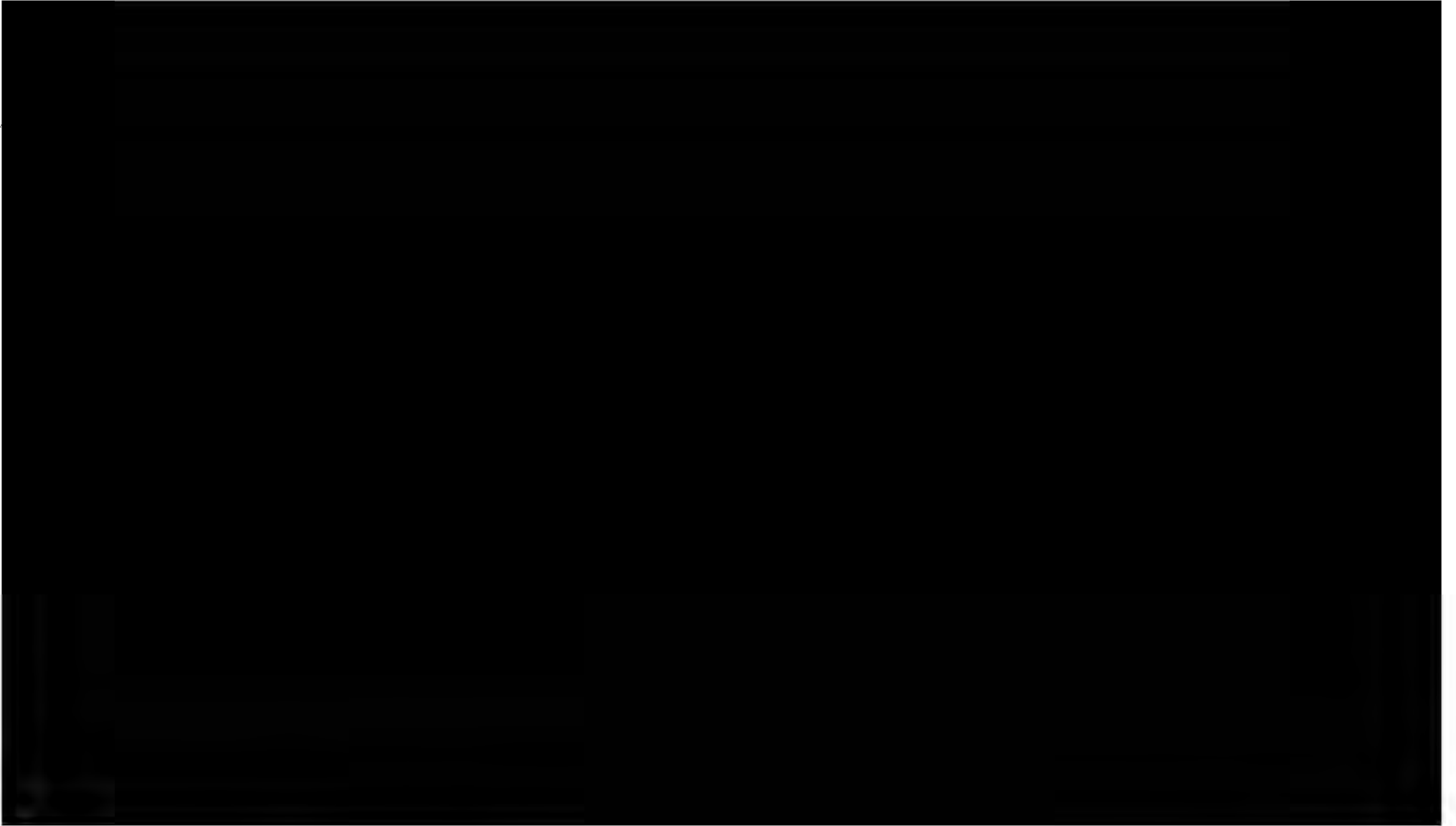


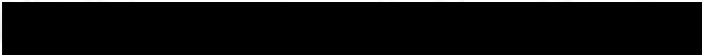
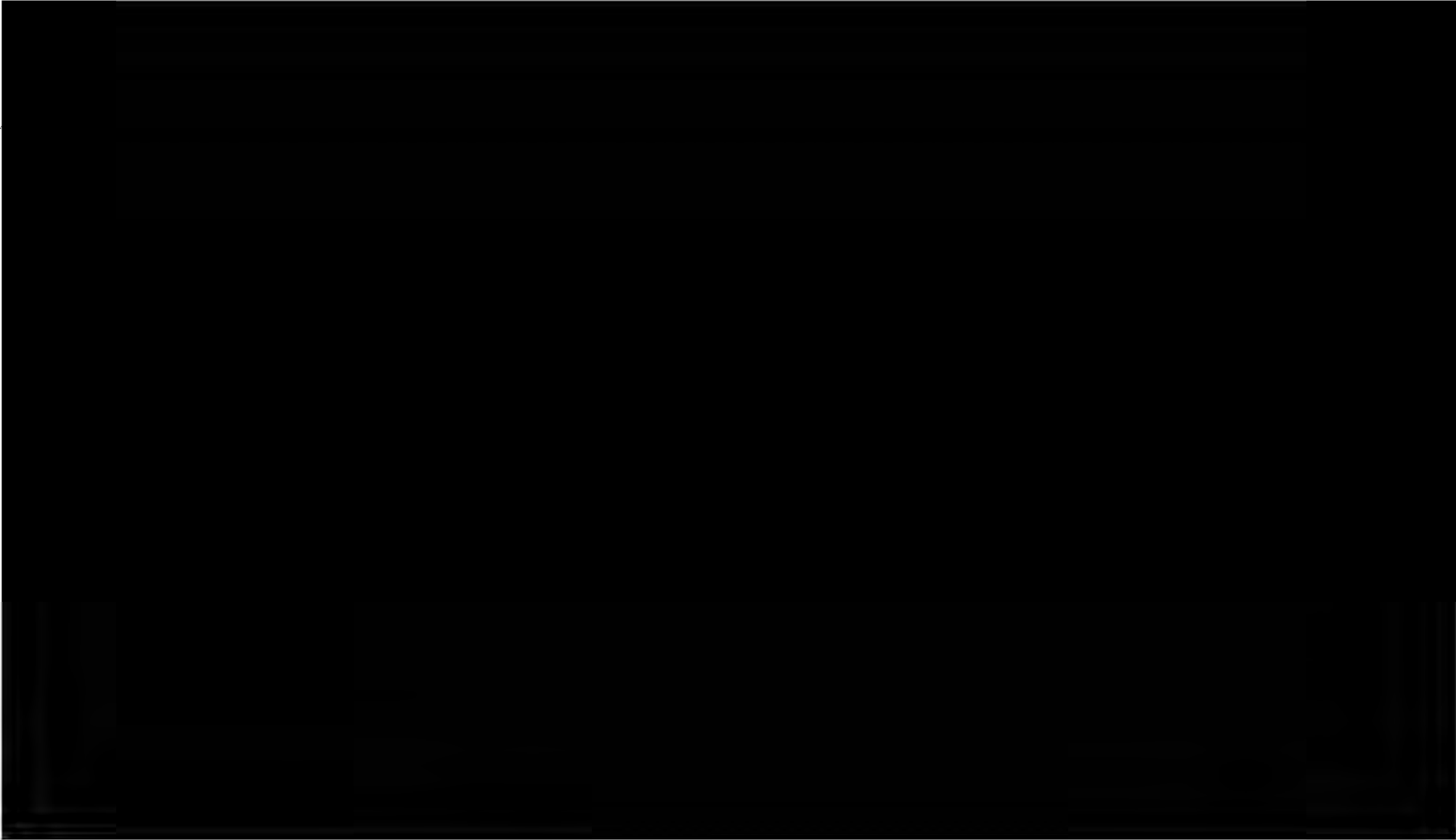




[Redacted]







Vision of success



Strong renewals

Customer base is retained



Regain trust

Improved NPS and account penetration across customer base



Sell to Amadeus customers

Sell IX, NP&S, and RO into Amadeus customer base



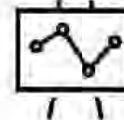
Faster time to value

Reduced implementation efforts and increased quality driving greater solution adoption



80% of customers on n-2

Older versions of products are sunset, reducing costs and freeing up resource



Profits are predictable

Managing the whole product lifecycle to drive ROIC



Competitive CSS takeaway

Win carriers away from a major competitor PSS

Discussion points

Key questions for consideration:

- Does version consolidation take portfolio rationalization far enough?
- How do we need to evolve services, care and support and deployment methodologies?
- What is the best model for AS/TN to co-approach key airline business relationships
- How do you engineer solutions for lower-touch and lower-cost implementations?
- How do we align with NGD/NGR?
- How do we effectively manage enterprise-level change?

Key risks to manage through:

- Employee motivation
- Rebuilding deep SME knowledge
- Adding new skill sets
- TN/AS coordination and alignment
- Quality versus speed
- Customers' willingness to accept our changing business model

Sabre

Project Mercury Evolving Our Core Capabilities

Anthony Maiello
Senior Vice President

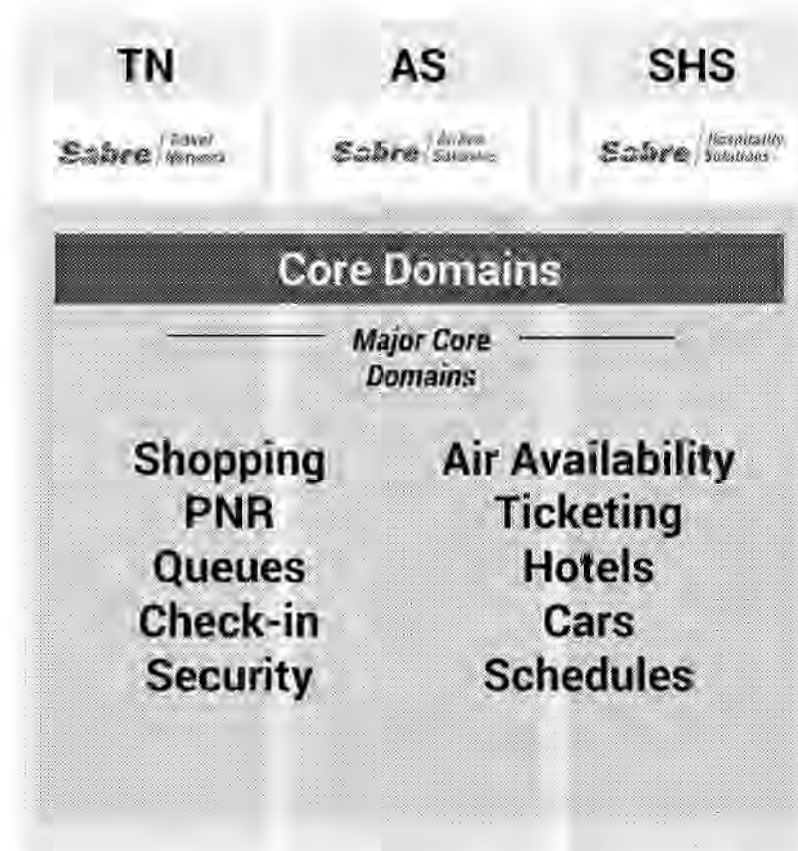
Executive summary

- Sabre's Core Domains (e.g. shopping, reservations) are a critical part of nearly all Sabre applications
- Siloed and competing architectures, piecemeal approach to Core Domain offloading, and short-term decision making, have had negative repercussions related to stability, performance, costs, and business flexibility
- Project Mercury addresses these challenges with a comprehensive, end-to-end approach that leverages the enterprise Polaris Framework
 - Mercury's approach will drive adoption of a common technical implementation framework while transforming Sabre's Core Domains to deliver capabilities that leapfrog the competition
- Project Mercury supports IATA's NDC standards and certification enabling future offer and order management and product bundling capabilities.
- Project Mercury proposes **██████ investment over ███ years, with █████ in Year █ delivering █████ net run rate operational savings**, as well as strategic benefits, including enhanced stability, performance, business flexibility, and the removal of software barriers to datacenter independence

Core Domains power Sabre's solutions

- Nearly all applications offered by Sabre utilize one or more Core Domains
- Current architecture consists of a mix of TPF (mainframe) and open systems
- Large volume of transactions requires high degree of stability, accessibility, and reusability

- 47,000 peak TPF transactions per second
 - 47% - Airline Solutions
 - 43% - Travel Network
 - 10% - Enterprise transactions



Current State

Historical incremental and siloed technical approach...

- Short-term, BU-focused incremental development often characterized by duplication and fragmentation
- Limited success in creating and enforcing a holistic Enterprise Technology strategy and common sustaining technology framework
- Piecemeal approach to TPF offloading of Core Domains, resulting in complex and costly hybrid mainframe and open systems environments

...now limits Sabre's ability to ensure robust Core Domains

Stability

- Although MTTR is improving, major incidents have been increasing

Performance

- 4.0x necessary processing time compared to optimized enterprise architecture

Current Cost vs. Future Open Systems

- Operating ~2.5x
- Dev costs ~3.0x

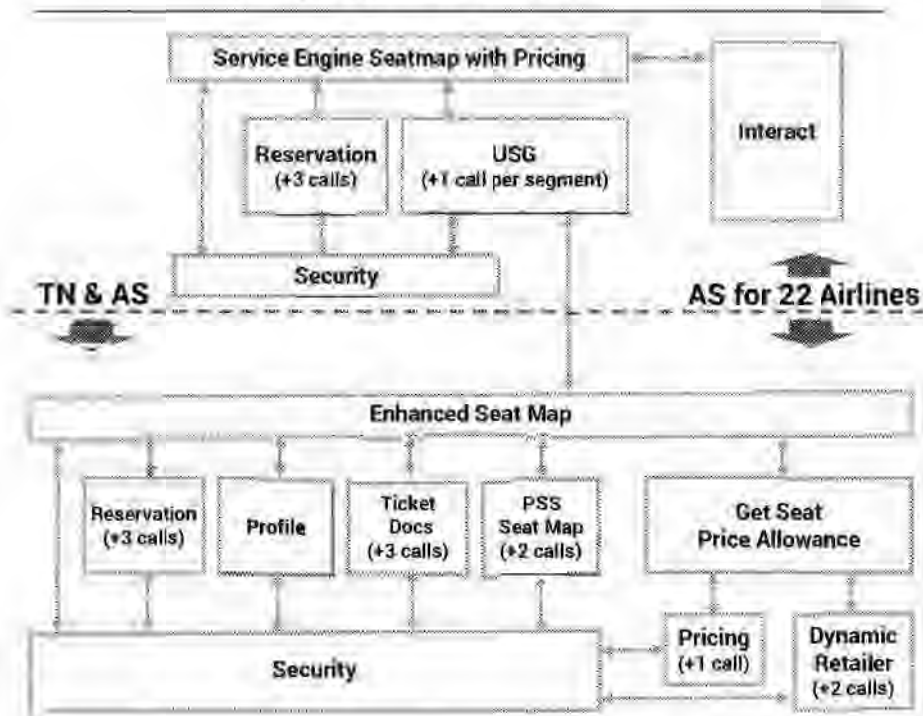
Flexibility

- Difficult and slow to add new capabilities
- Data center and scarce skill set dependence

AS and TN seatmap request case study

Current State Multiple transaction flows

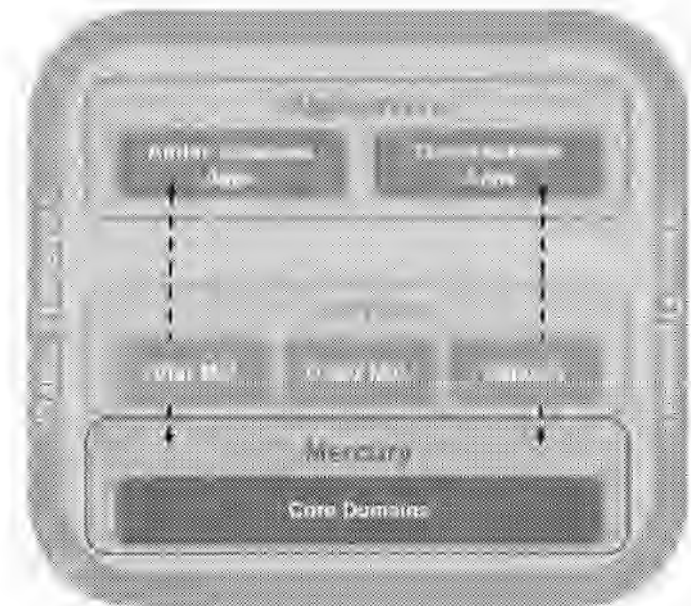
User displays Enhanced
Seatmap
1 passenger, 2 segments



- **Stability:** Too many internal calls result in 68 points of failure
- **Performance:** Latency is high at 1.7 seconds (per segment) due to unnecessary process looping and re-retrieval of the same data
- **Cost:** New development requires changes and testing of many components
- **Flexibility:** Slow to market and not cloud enabled
- **Security:** Does not have full end-to-end application Security

What is Project Mercury?

- + A comprehensive, end-to-end approach to solve significant problems with Core Domains
 - Current, competing architectures
 - Dependence on TPF operating system
 - Hybrid TPF / Open Systems environments
- + Value of Mercury's approach:
 - Establishes and enforces enterprise framework that drives a simplified and consistent architecture
 - Leverages existing functionality and delivers new business capabilities to leapfrog the competition
 - Phased approach delivers incremental business benefits
- + Mercury proposal is comprised of two elements:
 - Adopting and driving new enterprise framework (Polaris) across development to enable consistency of tools, processes and standard interfaces
 - Transformation to reusable and shared Core Domains, enabling business and technical benefits

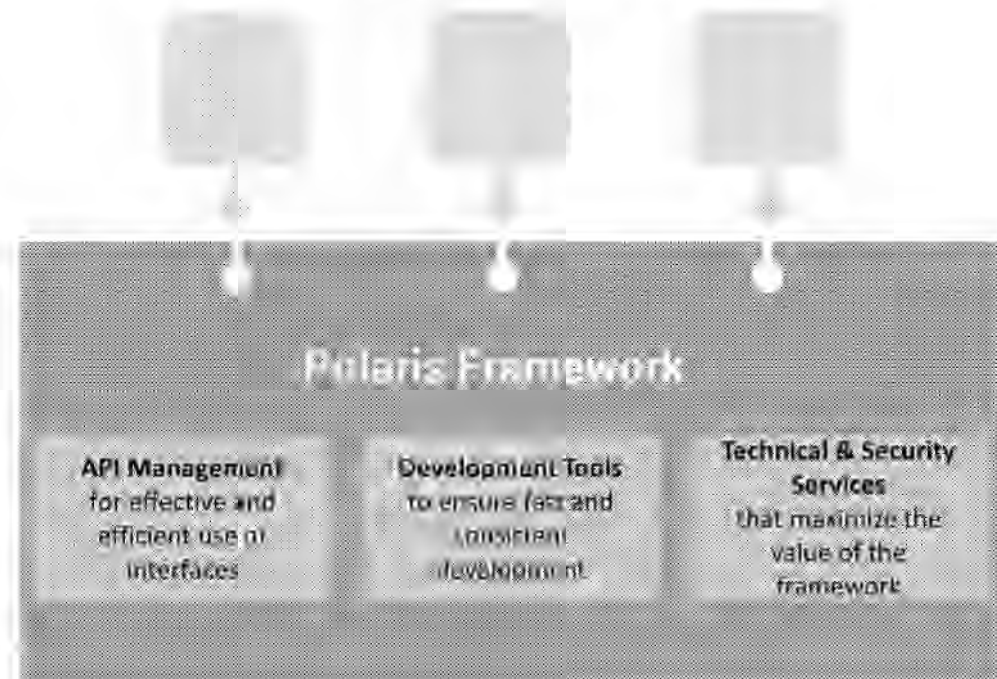


Mercury leverages enterprise Polaris Framework

Mercury leverages and enforces the Polaris Framework to drive technical consistency and integration

- Capabilities to consistently manage APIs for internal and external use
- Common set of development tools to create complex business applications quickly and efficiently
- Technical and Security services that ensure interoperability and re-use across Sabre environments

Core Domains



Mercury approach supports three methods to service-enable Core Domains

Methods for service-enabling Core Domains...

1 WRAP

Leverages current software without re-coding by creating a virtual wrapper to enable standard access and interoperability

2 RE-WRITE

Re-codes current business processes on a target system to enable standard access and interoperability

3 WRITE NEW

Develops new business processes on target system to enable standard access and interoperability



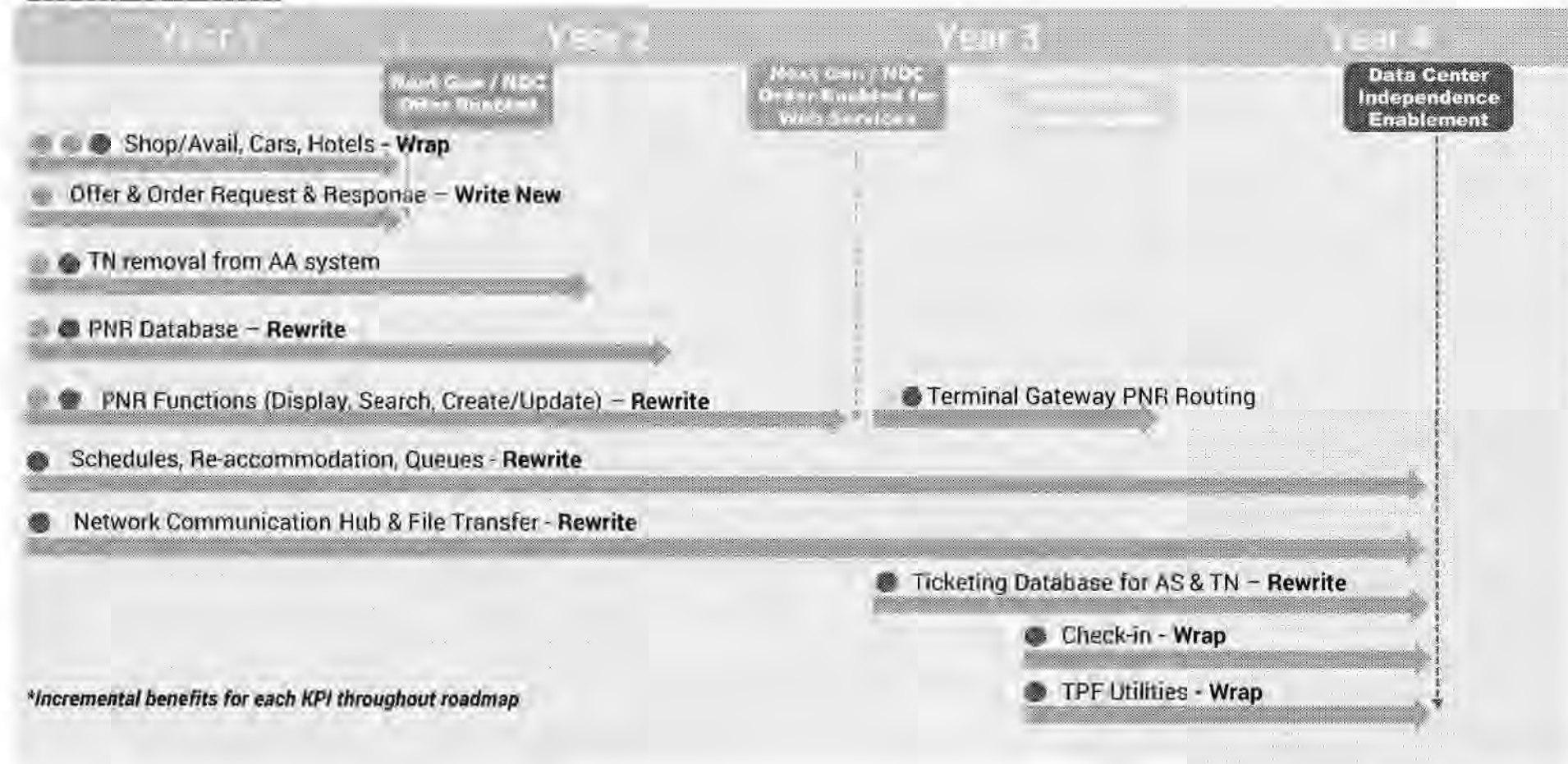
Use method when...

- Current capabilities meet business and technical needs
- Mostly on Open Systems, needs framework
- Lower technical complexity
- **Example: TPF utilities**
- Difficult for TPF to accommodate new capabilities
- Higher technical complexity
- Material benefits to be realized from a re-write
- **Example: Complex services like PNR**
- New capabilities required
- Need to extend current capabilities
- **Example: Advanced Offer & Order Management**

Mercury approach utilizes three methods to service- enable Core Domains

Method	Mercury Core Domains	Reason for Method
1 WRAP	<ul style="list-style-type: none"> • Air Availability & Shopping • Cars & Hotels • Check-in • TPF Utilities 	<ul style="list-style-type: none"> • Mostly Open Systems, needs framework • Lower technical complexity • Currently meets business need • Low technical complexity
2 RE-WRITE	<ul style="list-style-type: none"> • PNR • Queues • Schedules 	<ul style="list-style-type: none"> • Material benefits come from re-write • Difficult for TPF to accommodate new capabilities • Higher technical complexity
3 WRITE NEW	<ul style="list-style-type: none"> • Next Gen <u>Offer</u> and Response • Next Gen <u>Order</u> with bundling • Enhanced Support & <u>Delivery</u> of Next Gen Order • Additional Next Gen capabilities as needed 	<ul style="list-style-type: none"> • Brand new capability set needed • Brand new capability set needed • Brand new capability set needed • Brand new capability set needed

Mercury roadmap: detailed view of workstreams and approach (wrap, rewrite, write new)



Mercury approach validation

Approach discussed, supported, and agreed upon

Hervé Couturier
Former CTO, Amadeus



This is the right direction and the right technical approach...you've got to do this to be able to innovate faster and be competitive

Scott Dickson
Principle Consultant of Airlines

ThoughtWorks

Positive discussions on approach with over 100 internal reviews across BUs and PDs

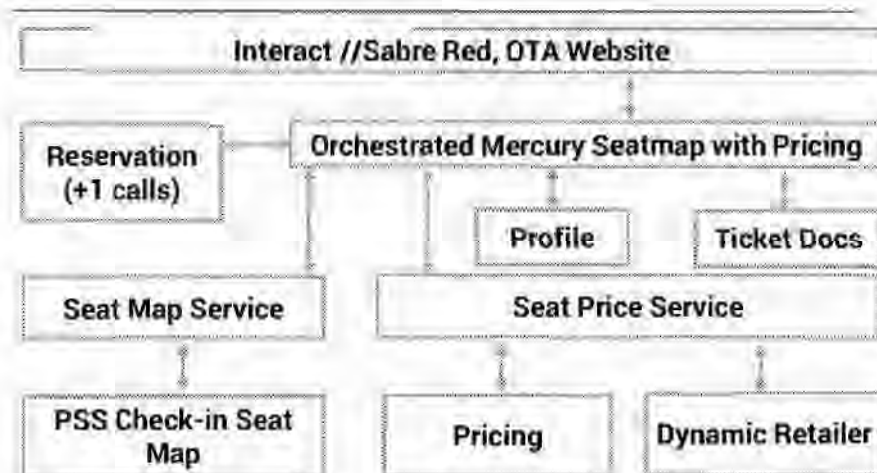
The Sabre logo, consisting of the word "Sabre" in a white, italicized, sans-serif font, set against a dark gray rectangular background with a slight gradient and a shadow effect.

AS and TN seat request case study

User displays Enhanced Seatmap - 1 passenger, 2 segments

Future State with Mercury

One transaction flow for all



- Enables consolidation of systems and services
- Removes unnecessary internal calls and complexity
 - Remembers data so only one retrieval is needed
 - Passes only necessary data as needed
 - Passes a list of data once instead of calling for each data element one at a time
- Delivers consistent Security via Digital Signature and user traceability

Stability

- 85% reduction in points of failure (68 down to 10)
- 80% reduction in MTTR via transaction tracking

Performance

- 74% reduction in processing time

Cost

- 30-40% improvement in development productivity

Flexibility

- Supports cloud enablement and time to market

Security

- Enables Security at every point in the system

Mercury Pan-Sabre engagement - Opportunities

Identifying options for Mercury architecture to solve current BUPD challenges – from Deep Dives

AS & TN	AS	TN
Provide configurable services for airlines to accommodate unique business flows, without introducing new complexity	Interact Refresh with Stability and Performance improvement	Exploring Mercury value add for new Lodging Platform
Remove redundancy of services	Simplify technology stack – Services Engine, Digital Connect...	Use Mercury architect to assist in deconstructing GetThere services so they can be monetized
Ensure consumption of services is not only simplified, but stable, predictable and high performing	Enable Check-in to continue at the airports during a Core domain outage	
Clarify and streamline domain ownership across the enterprise to align with the business products and objectives	Automated cutover and fallback	
Clean up versioning and versioning compatibility		
Deliver cross domain Shopping and Booking services in Mercury framework		
Automated deployment		
Converge roadmaps for mobile devices		

Mercury PoC status update proving goals

Queues domain creates lists of PNRs needing action, then removes them from list when complete

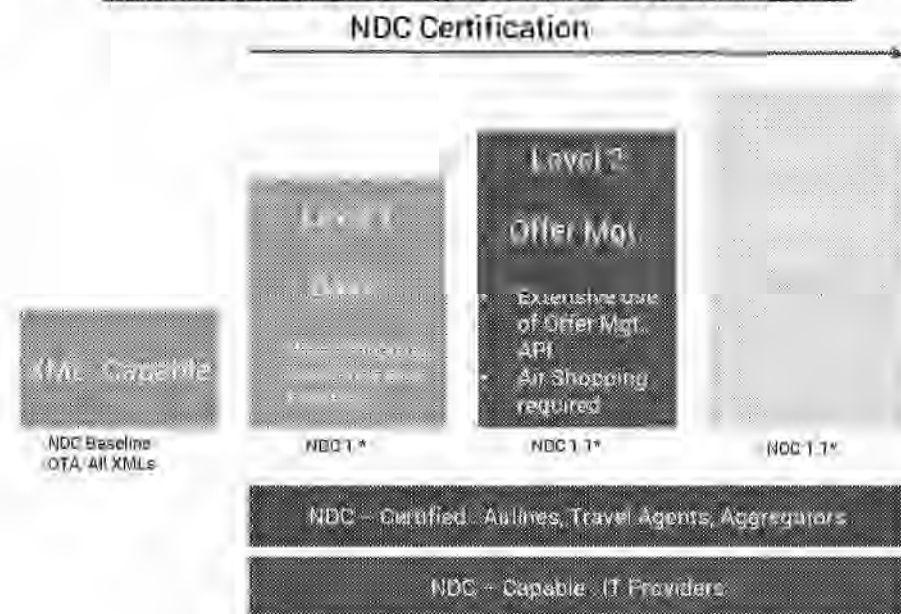
	GOAL	POC CURRENT STATUS
Stability	<ul style="list-style-type: none"> • Reduce system points of failure (PoFs) • Proactively discover potential failure • Automate system recovery & reduce MTTR 	<ul style="list-style-type: none"> ✓ Reduced 20 to 12 hops (40%) using via service enablement ✓ Implemented Transaction Object for real-time tracking ✓ No additional hops for cloud enablement
Performance	<ul style="list-style-type: none"> • Reduce system processing time • Optimize customer response time based on location • Scale with modern micro-services 	<ul style="list-style-type: none"> ✓ Implemented Pass-by-value to improve response time ✓ Demonstrated distributed framework to reduce latency
Cost	<ul style="list-style-type: none"> • Reduce operational costs (MIPs) • Reduce development costs 	<ul style="list-style-type: none"> ✓ Wrapped PNR & User Login ✓ Re-wrote Queues features and mainframe user Security ✓ Wrote new reusable services to reduce development costs ❑ Demonstrate reduction of deployment time to save costs
Flexibility	<ul style="list-style-type: none"> • Deliver new business capabilities quickly • Support data center independence • Enable cloud 	<ul style="list-style-type: none"> ✓ Quickly developed new media and Profile features using orchestration framework ❑ Demonstrate distributed architecture to enable data center independence and cloud options
Security	<ul style="list-style-type: none"> • Enhance end-to-end application Security 	<ul style="list-style-type: none"> ✓ Implemented enhanced end-to-end application Security via User-Object ❑ Implement digital signature Security feature to remove vulnerable functional accounts

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Project Mercury in coordination with NDC and Sabre's strategic projects

- Project Mercury enables the implementation of the **IATA New Distribution Capability (NDC)**, establishing the foundation necessary to support and deliver future NDC standards by providing the capability to bundle new product offerings and orders on demand
- Sabre's Product Strategy project focuses on developing future state E-commerce capabilities
 - **Next Gen Retailing (NGR)**: creating and selling tailored offer bundles (core + ancillary content)
 - **Next Gen Distribution (NGD)**: merchandising offers through direct and indirect channels

IATA's NDC Standard – different levels of certification



Source: NDC Change Readiness Guide For Airlines Edition 3

Mercury roadmap: enabling Sabre enterprise strategy

	Year 1	Year 2	Year 3	Year 4
KPI	Stability	25% MTTR improvement 25% less points of failure, reducing outages	50% MTTR improvement 50% less points of failure, reducing outages	75% MTTR improvement 80% less points of failure, reducing outages
	Performance	75% faster PNR display	75% faster PNR Create/Update	75% faster in Schedules updates
	Cost (Net Ops/productivity)	[Redacted]		
	Flexibility	Product bundling for Offer Mgt.	Product bundling for Order Mgt. and Delivery	DXC independence enabled

*Note: KPIs become realized upon business adoption

Project Mercury enables incremental benefits over [REDACTED] year period

Investment

- [REDACTED] over [REDACTED] years, with [REDACTED] in year [REDACTED]

Cost Savings

- [REDACTED] net operational run rate savings after [REDACTED] years
- [REDACTED] increase in development productivity

Strategic benefits

- Proactively prevent outages with end-to-end (E2E) traceability and self-healing
- Decreases outages by reducing points of failure by 80% and shortens MTTR by 75%
- Achieves 75% faster internal processing
- Ability to assemble new products and services on demand to leapfrog competition
- Enable NDC, Next Gen Retailing (NGR) & Next Gen Distribution (NGD) evolution
- Removes the software barriers to becoming data center independent (i.e., cloud enabled)
- Reduces dependence on scarce TPF resources





Sabre

High-level Data Center Strategy

Joe DiFonzo
CIO

August 11, 2017

Current Data Center Architecture

3 DXC-owned sites in Tulsa

- SCC and TCC in Mingo and CDC in Cherokee
- All mainframes (active + DR) and thousands of mid-range servers
- Servicing the vast majority of TN and AS business

13 Sabre-managed colocation sites

- Lewisville and Austin, Texas that host > 1.5K servers mainly for the HS business
- New sites coming on line in Carrollton and Plano, Texas with > 2K servers for ATSE and eLab
- 9 other small sites in the US, Europe, and Australia that host various applications mainly for AS

Six AWS regions hosting several hundred assorted servers

- US West, US East, EU West, Japan, Sydney, Singapore

Current Plans

Consolidate from 12 to 8 production Mainframes in Tulsa (2017)

Migrate ATSE to Carrollton/Plano and turn down servers in Tulsa (2017/2018)

Migrate SHS to AWS – PMS by 2018 and CRS by 2020

Move eLab from Lewisville to Carrollton by 2018

Initiate Project Mercury to further decouple services from mainframe tech

Considerations

Cost Efficiency – move to lower-cost infrastructure, reduce availability costs

Business Agility – add, grow, and move workloads as needed

Customer Perceptions – mainframe tech, US centric, poor reliability

Customer Locality Preferences – Regionalize services and data stores

DXC Partnership – Poor performance, high cost, low agility, Hopper EoL

Tulsa Facility Quality – Power/thermal limitations, space & environmental concerns

Mainframe Technology – Propagation and insourcing concerns

Regional Disaster Vulnerability – Tornado alley, Texas grid

Strategic Options

DXC + Sabre-managed Colocation

- Remain with DXC and expand our own colocation facilities (Carrollton, Plano, or elsewhere)
- Continue service migration from mainframes, exit Mingo, stay in Cherokee with upgrades/cleanup
- Provides more flexibility on mainframe migration timeline, higher cost trade-off

Sabre-managed Colocation

- Expand Carrollton and Plano and add a third colocation site (will also need to expand team!)
- Concern over two sites on Texas power grid, may want to reconsider/move one of these
- Will require complete mainframe turndown, mainframe propagation, or extension in Tulsa

Public Cloud

- With either of the above, or (eventually) exclusively
- Could be good solution for seasonal variations and bursts
- Requires lots of application re-engineering, but will provide the best agility and skills focus

Also Recommended: 3-Site Distribution Model

Reducing Costs for Availability

- 50% overhead in processing capacity vs. 100% overhead in a 2-site model
- Note that storage cost is always double since every byte has to be in at least 2 places

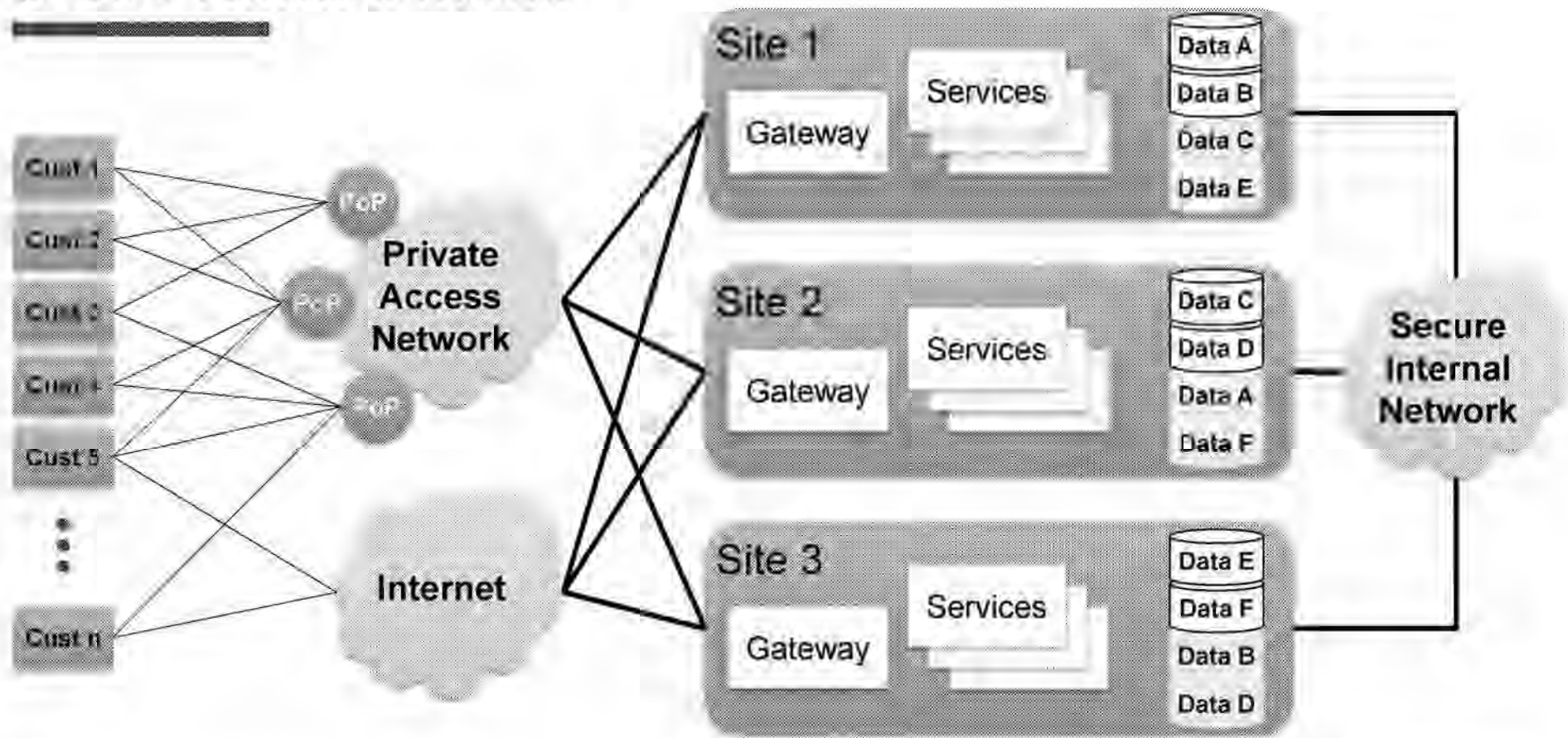
Providing real availability in disasters

- The odds of a successful failover in an actual disaster scenario are low, despite practice
- 3-site model is always dynamically distributing workload, so nothing for ops to do but recover

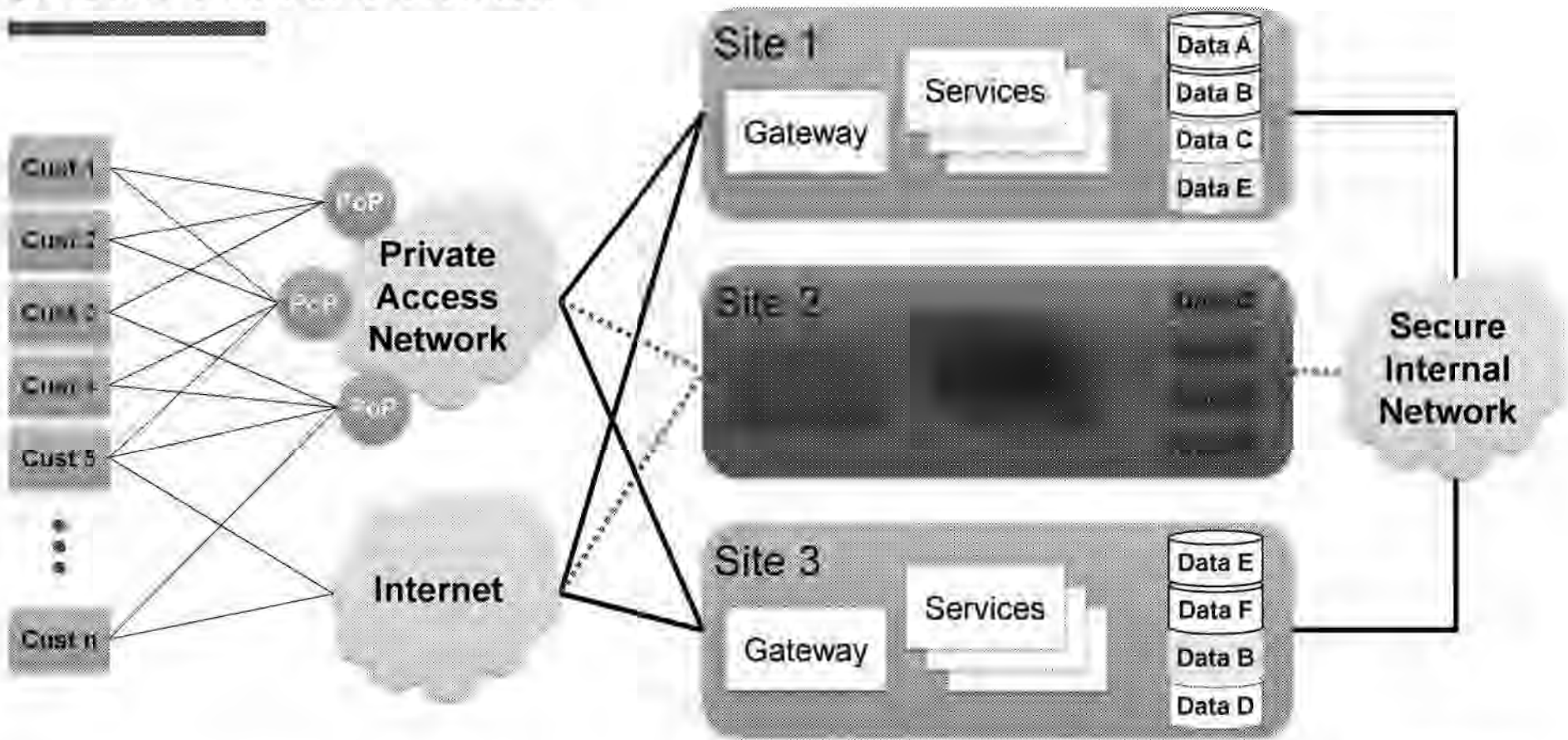
Simplifying Operation

- All sites have the same capabilities, equipment, and application configuration
- 17% excess capacity exists in all sites to deal with unexpected spikes
- No need for special DR processes and recovery drills
- Possible to take whole site out of service for major maintenance if needed (e.g., core network)

3-Site Normal Mode



3-Site Failure Mode



Required Techniques

Data distribution and synchronization strategy

- Partitioning keys (real or artificial) and directory service
- Background high-performance, high-reliability data synchronization
- Some data (e.g., seat inventory) may require 2-site synchronized update (2PC)

Recovery resynchronization and reactivation (failback)

- Adequate processing and network capacity to recover after an outage of arbitrary duration
- Time to complete and failback should be a simple function of outage duration

Simpler approach possible for some systems

- App in three sites, database in two
- Active/standby database with fast failover and application decoupling where necessary
- Supported by off-the-shelf tools like Oracle Active Data Guard

Next Steps

Complete detailed financial analysis of AWS hosting vs. Sabre-managed colocation

Compare options and select plan for Hopper EoL re: DXC and mainframe tech

Work with Development to speed progress on Mercury program

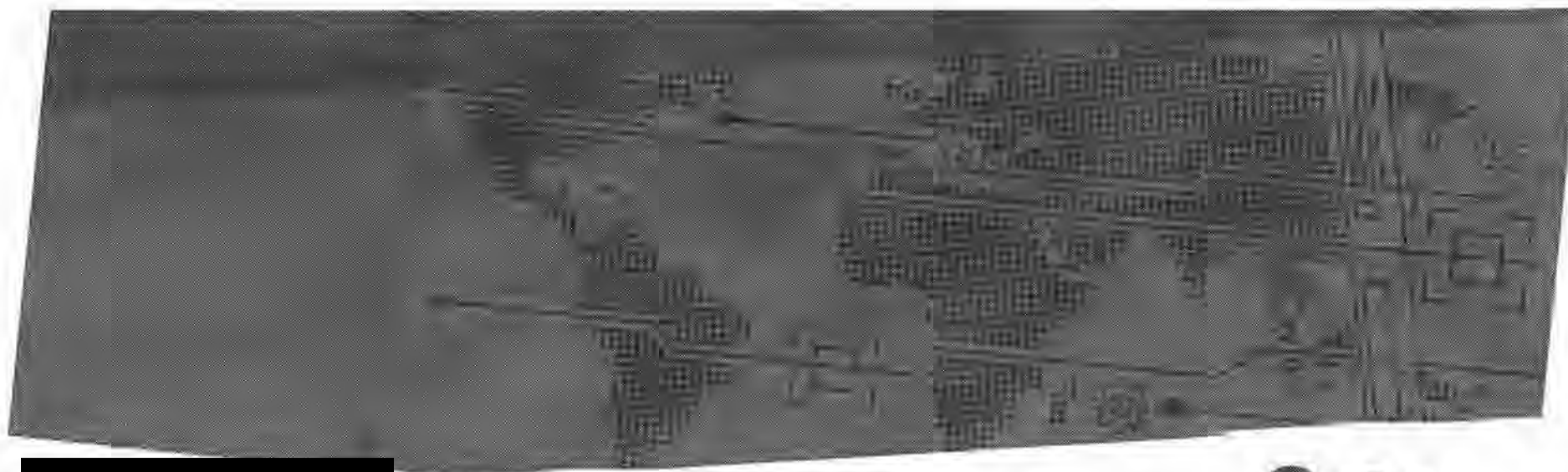
Work with Development teams to architect 3 site distribution in key applications

Examine options for geographic distribution (EU, APAC, MEA, China, India, SA)

labr ®

Travel Network Strategy Update

August 2017



Sabre

SABR-00001603R

Agenda

Tuesday, August 15th – Wednesday, August 16th

Topic area	Presenter	Time
Introduction	Wade Jones / Matt Lane	20
Major strategic questions facing TN		
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Shopping update	Brett Burgess	15
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Key agency activities	Wade Jones	15

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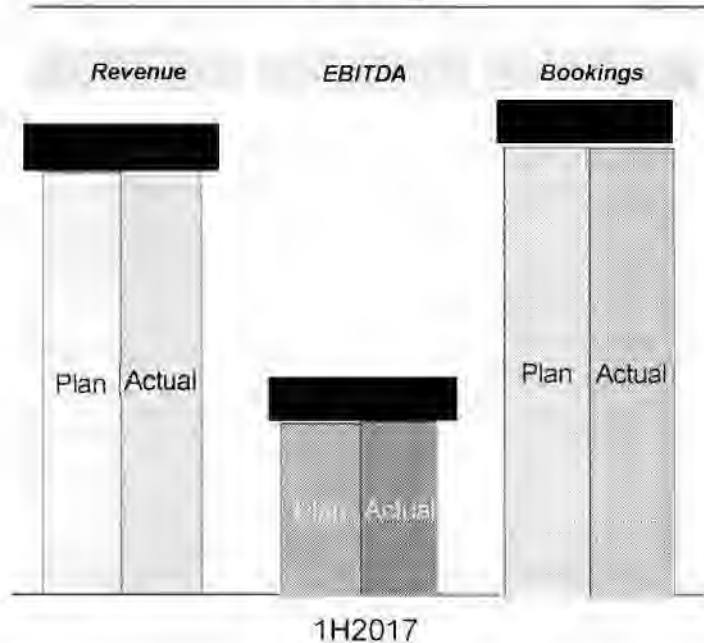
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TN beating financial plan despite bookings slightly below plan due to agency mix

TN beating financial plan, slightly under plan in bookings



What's going well

- Beating plan on revenue: ██████████ 1H17
- Beating plan on EBITDA: ██████████ H17
- Flight Centre - 4 locations deployed in July, remaining 1,692 locations to be deployed over remainder of 2017
- Conversions – gains outpace losses (0.4% share gain)

Where we have more work to do

- Under plan on bookings: (██████████)
- Incentive rate management
- Bookings market share is down, but mix driven
- Supplier pressure is growing
- Large agency deals in 2016 impact costs



Source: Travel Network finance

Sabre's strategy is to provide travel buyers and suppliers even more flexibility in maximizing the value of our deep and rich travel marketplace



Get healthy and fit

- Stabilize and harden our systems in the face of increasing volumes
- Grow our "low cost producer" advantage



Drive LGS full potential

- Participate more meaningfully in LGS distribution



Reduce supplier channel friction

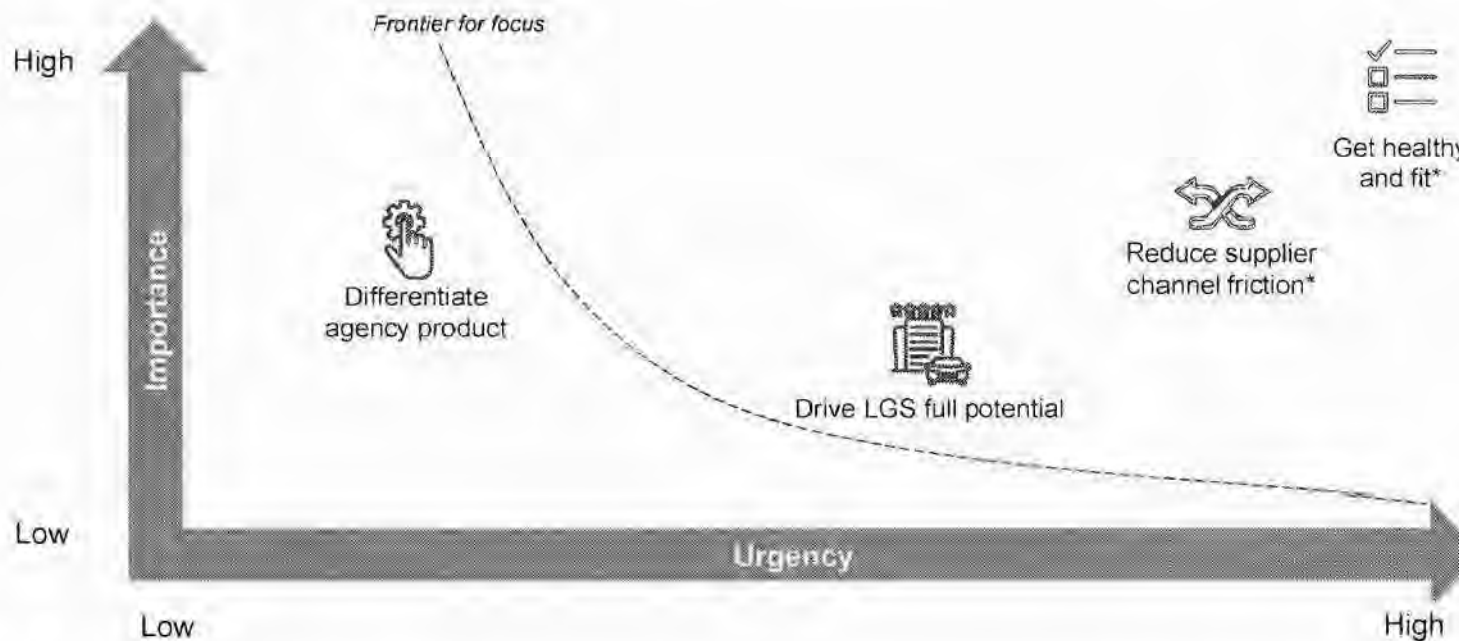
- Sell products and services the way our suppliers want across channels
- Calibrate the cost of distribution to the value in the channel



Differentiate agency product

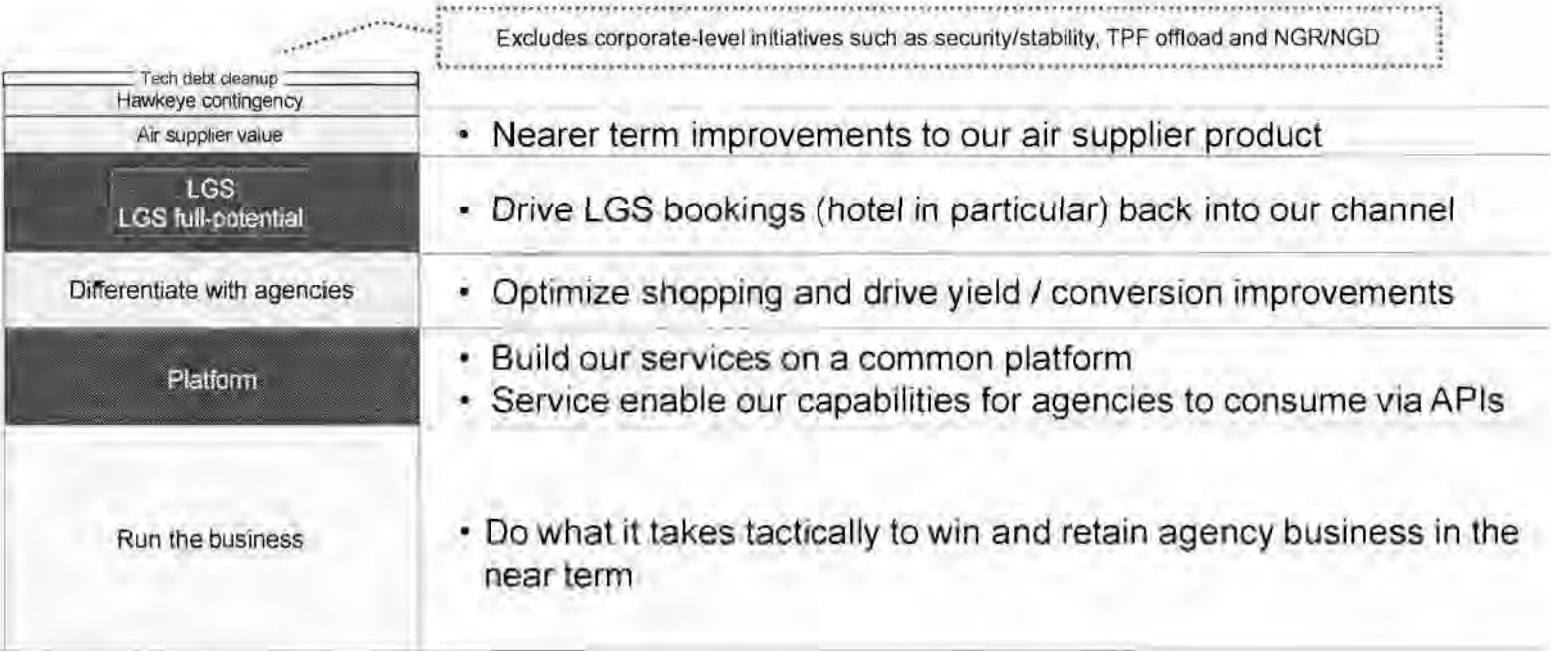
- Deepen and widen our technology relationships with agencies
- Deliver technology capabilities via APIs

TN prioritizes strategy resources by balancing the importance of an initiative with the urgency with which an answer is needed



*Pan-Sabre focus area

The prioritized focus areas are to be addressed via our 2018 capital allocation plan



Estimate - 2018 CAPEX allocation



Agenda

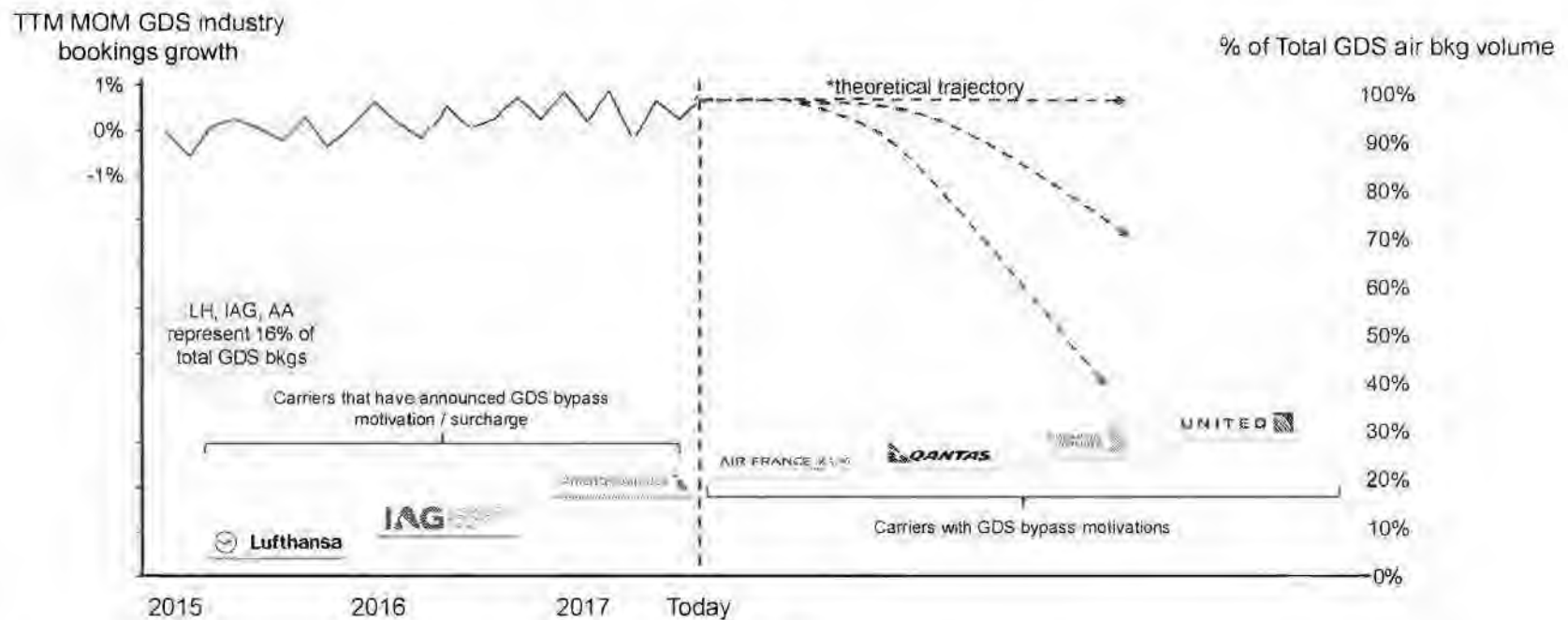
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We believe there is a tipping point where Sabre agencies will determine GDS content to be inadequate resulting in negative indirect channel shift



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Source: August 2014 – August 2017 total GDS air MIDT volume

Notes: IAG carriers include BA, IB, VY, and EI. Total GDS carrier volume is a snapshot of 2016 total indirect volume

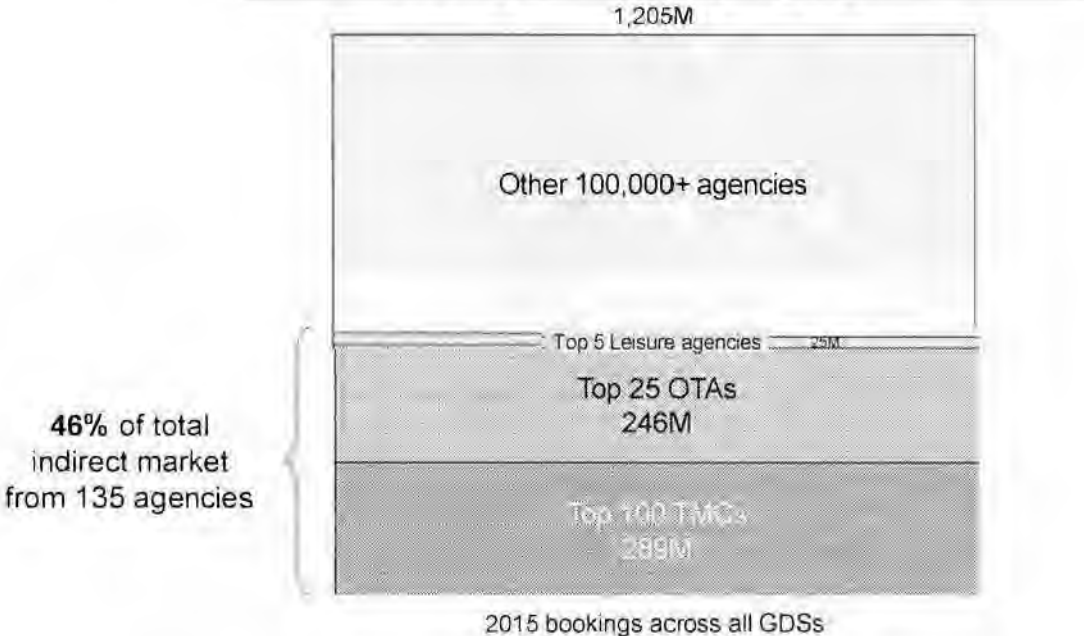
Total GDS carrier volume percentage: LH (3%), IAG (4%), AA (9%), AF-KLM (4%), QF (1%), SQ (1%), UA (6%)

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GDS market has a long, thin tail with 135 agencies comprising around half of the bookings and ~100,000 additional agencies making up the other half



Booking volumes by agency segment





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Travel Network offers a wide variety of agency products, however derives little direct revenue from these agency products



2016 Sabre Travel Network revenue

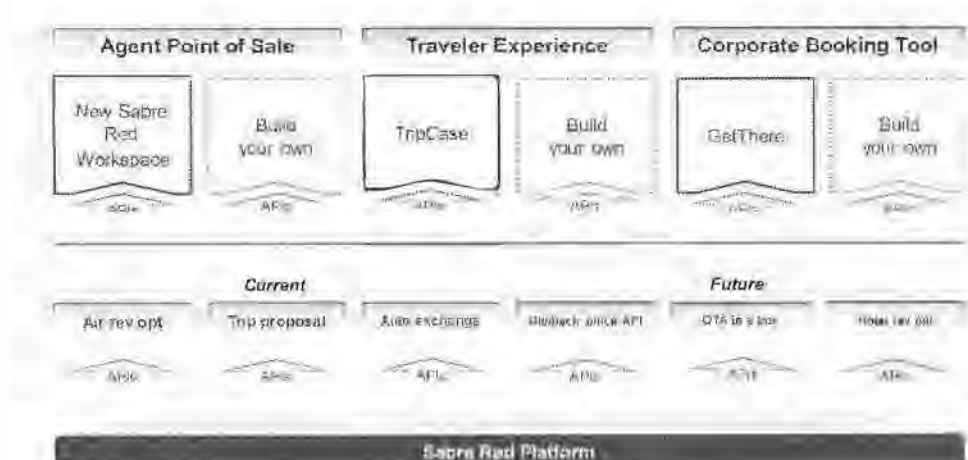


Source: Sabre finance

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SABR-000015051

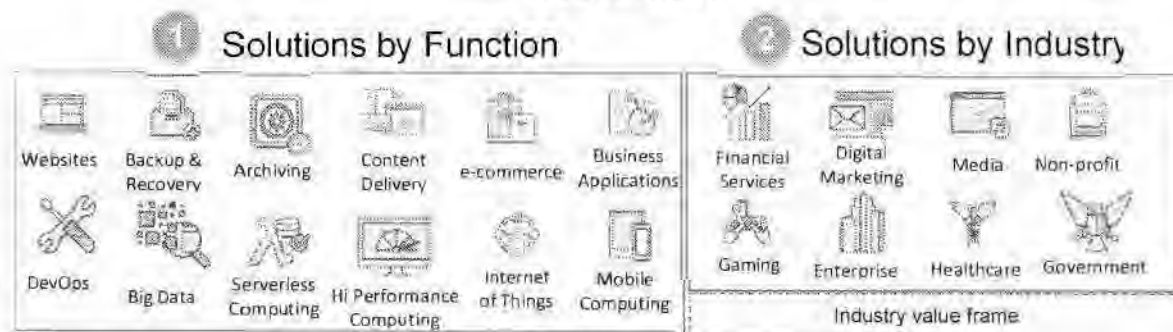
The Sabre Platform strategy is to deepen and widen our technology relationship with agencies through flexible solutions built upon APIs



- 1 Continue offering our products off the shelf & refactor our solutions on new APIs
- 2 Enable customers to enhance their current tools using the APIs that power our solutions
- 3 Empower customers to develop their own custom branded experience and solutions



Amazon Web Services provides a good “north star” vision for how we would like the Sabre Platform to offer and deliver solutions for our customers



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Air shopping and booking is a good proof point of our vision for Sabre Platform services and will be delivered in Q1 2018



Project Scope



Air

Policy driven air shopping and booking

- New Air Booking
- Multi-GDS
- Policy & Preferencing
- Modify & Cancel
- Ancillaries
- Seat Maps and Paid Seats
- Full Payment Options
- Low Cost Carrier (Air Connect) Content

Initial Proof of Concept

- ✓ Completed a prototype which proves these services are technically feasible.
- ✓ Targeted a phase 1 scope that allows both companies to be successful
- ✓ Demonstrated that we are the right partner.

"I have never seen a more productive team within CWT and this team contains members from two different companies."
Andrew Jordan, CTO, CWT

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Remaining Timeline

July	Finalizing commercial agreement
August	CWT North America & Canada Employees
September	Amazon & Remaining CWT Regions
October	Begin implementing additional CWT Customer Sites (~100)
Q1 2018	Complete First Phase Implementations

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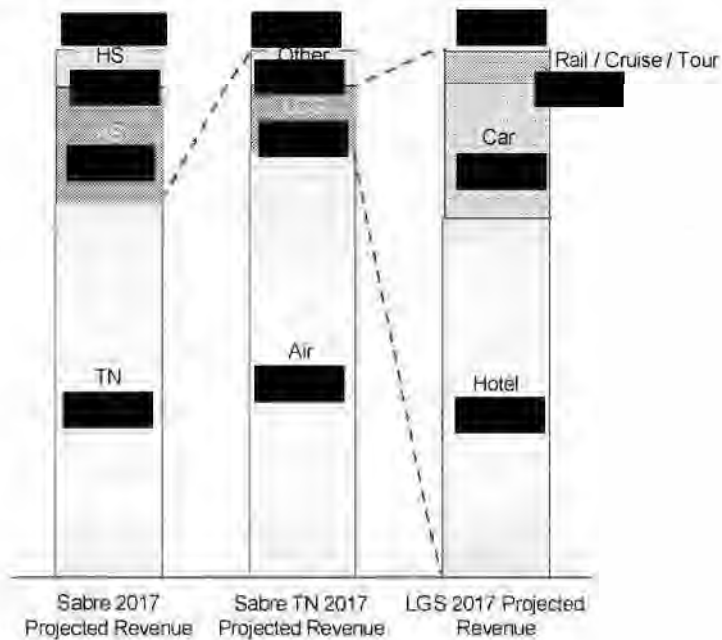
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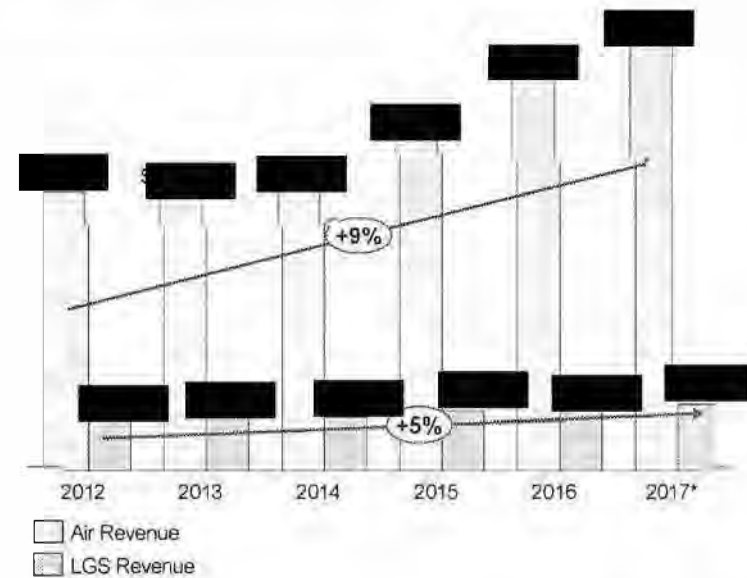
Lodging, Ground, and Sea bookings drive substantial revenue to Sabre



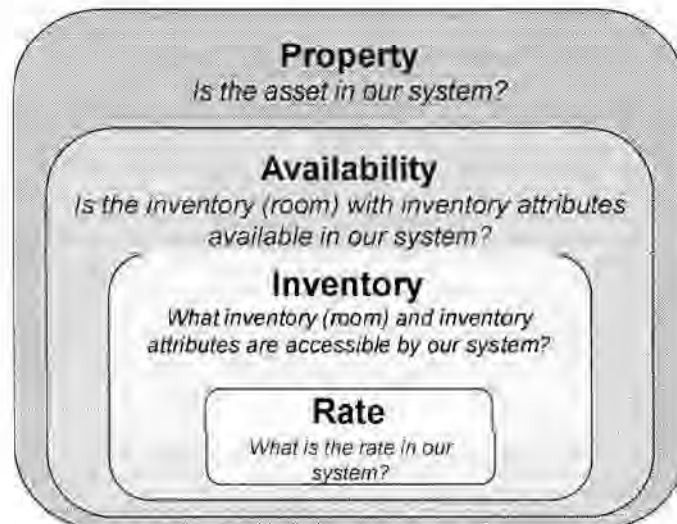
LGS represents 13% of TN's 2017 revenue¹



Air is growing nearly twice as fast as hotel



Air-centric concepts around “content” and “full content” are not directly applicable to hotel supply

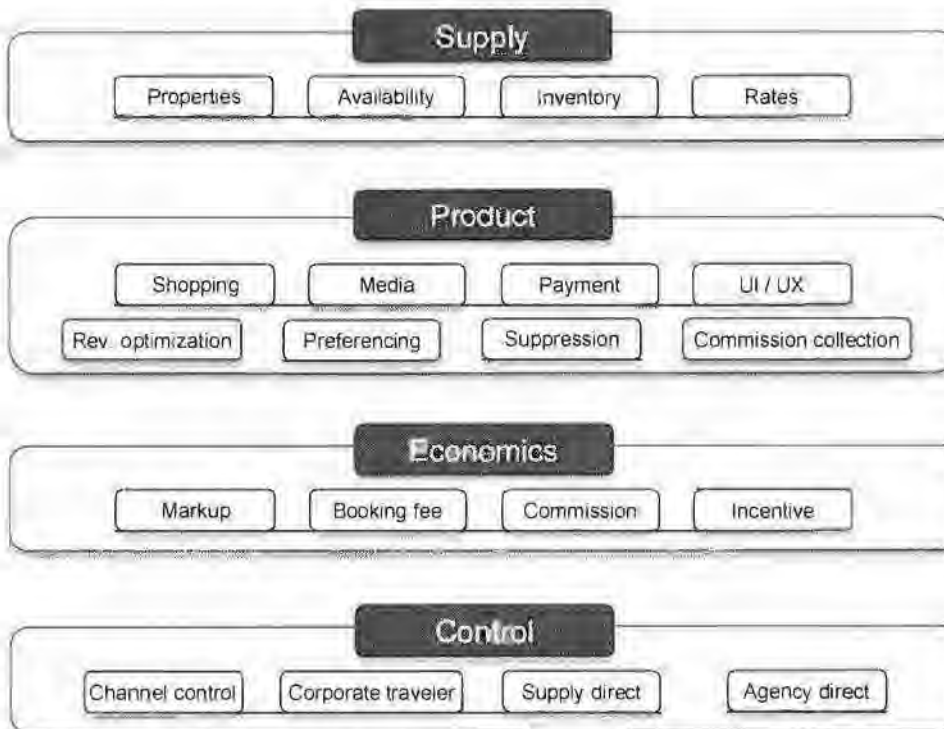


Key differences in hotel supply versus air content

- There is not a hotel version of ATPCo where all content is filed across the industry
- In many ways, and unlike airlines, hoteliers “lost control” of their supply by giving special deals to OTAs
 - It is common for a hotel rate to be better on OTA than hotelier's direct channel
 - This is very uncommon for air content where aggregators are often unable to display rates better than airline's direct channel
- Unlike air, Sabre hotel contracts only include a GDS rate parity clause (not channel parity)

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Less attractive rates / availability, UI / UX disadvantages, and revenue optimization limitations drive bookings outside channel

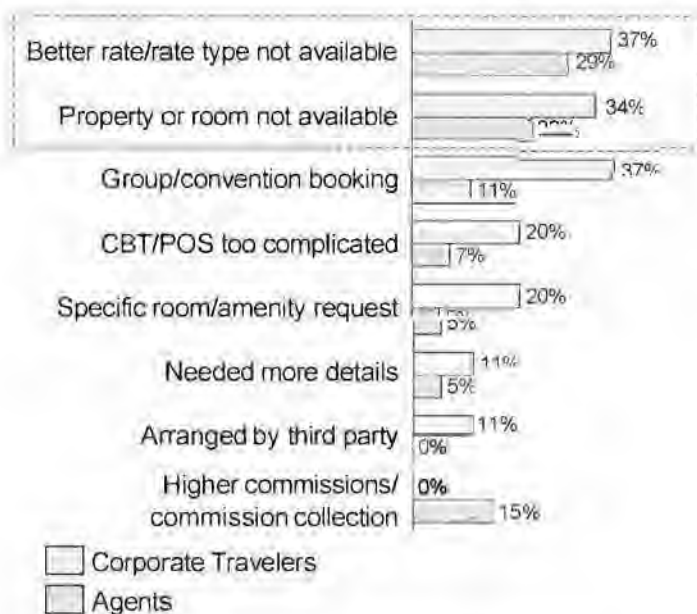


Supply cited as a key driver of bookings moving outside of channel

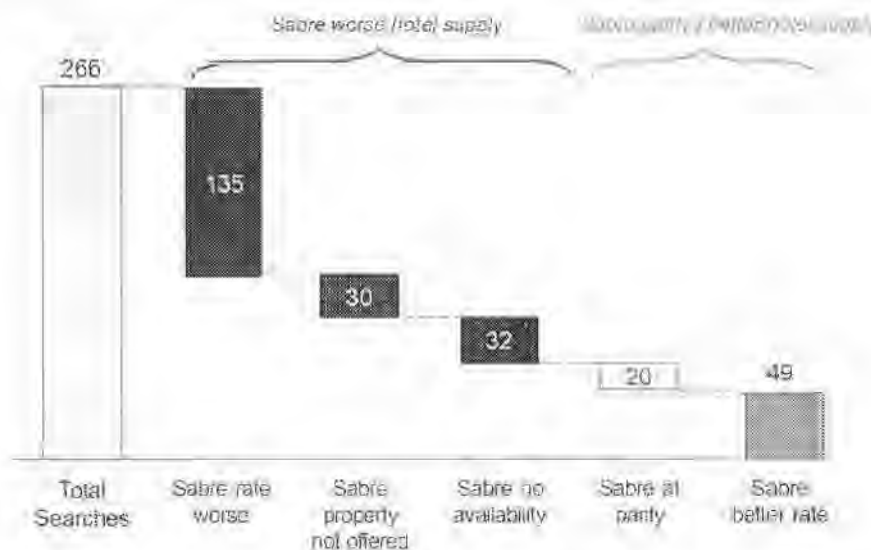
Qualitative feedback and quantitative data suggests Sabre has disadvantaged supply versus other booking options



Agencies and travelers cite supply as primary driver for booking outside GDS



In 74% of shopping comparisons, Sabre had a higher rate or less availability than other channels



Notes: Rate differences less than \$2 considered tie; ties included in Sabre win. Total searches excluded when all 3 channels were sold out. Rate losses exclude Sabre hold out (these were credited to property losses).
 Source: June 2017 Sabre analysis of 640 shopping comparisons; all comparison points.



"Why do you book lodging outside of the CBT/GDS?"
 Source: US Tripcast Business Traveler Survey (June 2017) and Sabre GDS Travel Agency Customer Study (June 2017)

Global Accounts taking control of hotel content integration and optimization



TMCs want to **integrate** their preferred supply, **normalize** the content, **preference** to optimize revenues, and **distribute** in all points of sale.



OUTSOURCING

- Contracted with TCT to provide sourcing platform and services (two years remaining)
- Sourcing their own supply
- Small sales team in place
- Focused on more targeted suppliers
- Higher control = Better economics



TRAVEL

BUILDING

- Bought KDS (Europe based OBT)
- Developing Supplier Management Platform, but would prefer Sabre-provided solution
- Focused on dynamic revenue management and preferencing
 - Consortia rates offer highest yield (██████ / booking)

BCD  travel

ACQUIRED

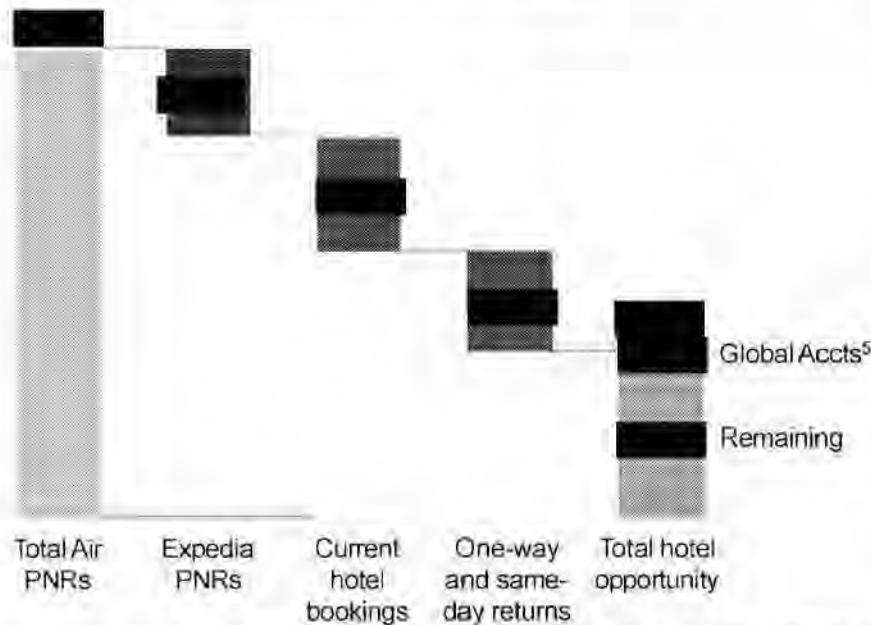
- Bought GetGoing for supply integration and management platform
- Supportive of GDS sourcing
- Focus on fee-based revenue and GDS incentives

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Opportunity to add hotel booking on 36% of current air PNRs resulting in additional [REDACTED] incremental revenue



Unattached air tickets represent [REDACTED] potential annual hotel bookings



Potential ~\$[REDACTED] revenue opportunity*

		% of opportunity captured (# bookings captured)		
		30%	40%	50%
% reduction in current booking fee	5%	[REDACTED]	[REDACTED]	[REDACTED]
	10%	[REDACTED]	[REDACTED]	[REDACTED]
	15%	[REDACTED]	[REDACTED]	[REDACTED]

*assumes flat incentive

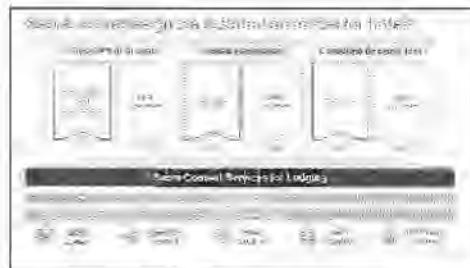


1. Total Air PNRs and One-way and same-day return PNRs based on TDW 2016 FY. Assumes no future growth in air bookings.
2. Expedia PNRs based on SC Code K2P4.
3. Hotel bookings based on 2015 FY Actuals using Finance 2017 Plan Hotel Supplier Rollup 0317.
4. Revenue assumes current average booking fee of [REDACTED] prior to reduction.
5. Includes Amex (G1YC, G6DH), CWT (H9M1), and BLD (L2V0).

Develop a flexible hotel supply platform to allow customers to find and consume hotel content via our POS or their own



Create a flexible technology platform to address supply issues



- Sabre creates a multi-source / multi-rep hotel platform that is source agnostic
- GDS hotel supply is displayed side by side with other content, such as aggregator or agency's private supply

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Drive economic value through best-in-class normalization and preferencing



- Provide platform that facilitates supply integration with revenue optimization support capabilities
- Normalize and structure data for consumption by customers
- Enhance preferencing capabilities to allow agencies greater control over hotel supply and bookings

Enhance POS and API capability to improve UX / UI



- Ensure consumer grade search capability with SRW and GetThere
- Create orchestrated APIs to power 3rd party connectivity (i.e. Concur, DEEM)
- Reduce setup costs and time for Sabre and suppliers through API capability

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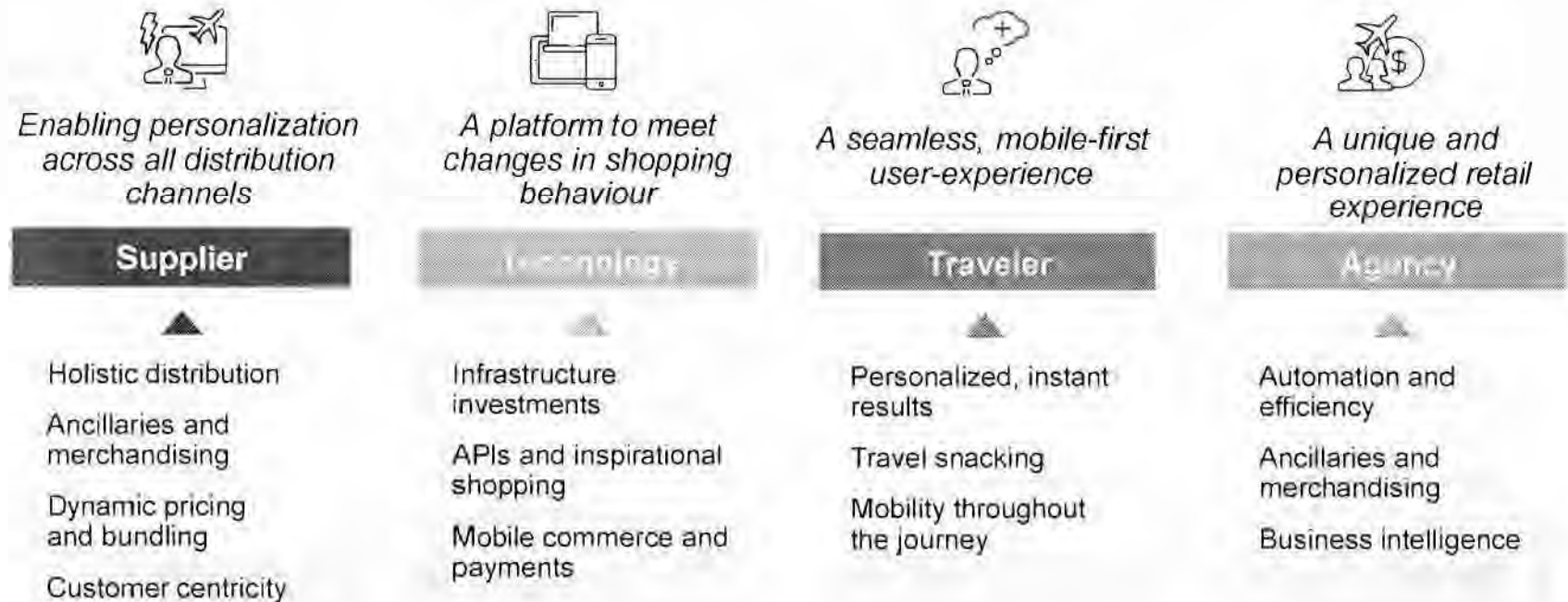
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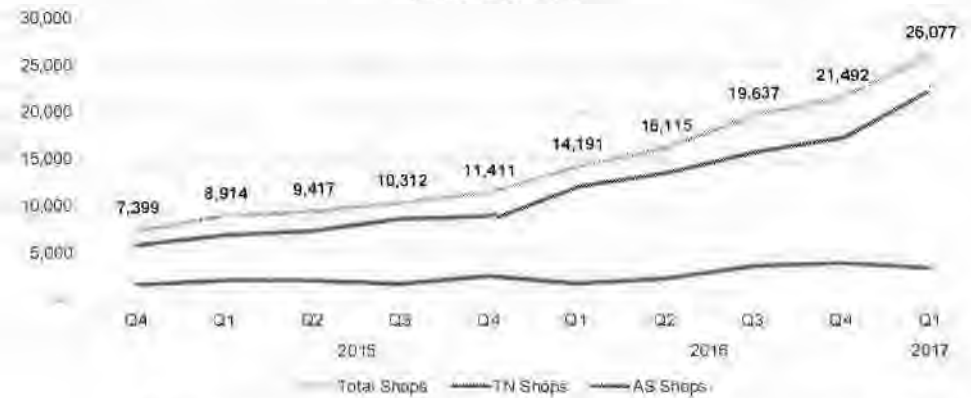
Marketplace dynamics



Internal cost performance driven by volume growth

Shopping requests growing at 94% vs. booking growth of 6% (Q4 2014 - Q1 2017)

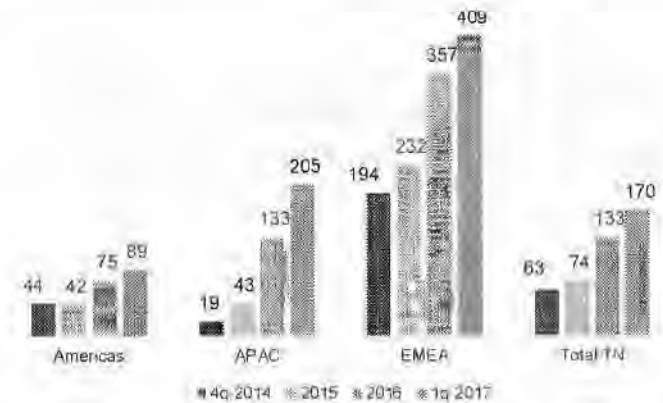
Shopping & Booking Volume
(Millions per Qtr)



	Q4 '14	2015	2016	Q1 '17
Bookings				
Max Daily				



Volume growth leading to exploding look-to-book



AMER +42% **APAC +230%** **EMEA +45%** **TN +64%**

Cost growth is further amplified by increasing complexity



More nations per shop

More prices per itinerary



Complexity growth drivers

FEATURE	COMPLEXITY VS. AVERAGE
Flex Fares	300%
Branded Fares	300%
Multi-Ticket	250%
Multi-PCC Shop	400%
Alt Date	200%

What we've accomplished so far..

Growth and innovation

- 20% efficiency improvement in 1H 2017, additional 30% in 2H 2017
- Defined role of air shopping in next generation retailing and distribution
- Pilots: agency-facing pricing optimization, machine learning-based cache optimization
- "Best offer" campaign and benchmarking

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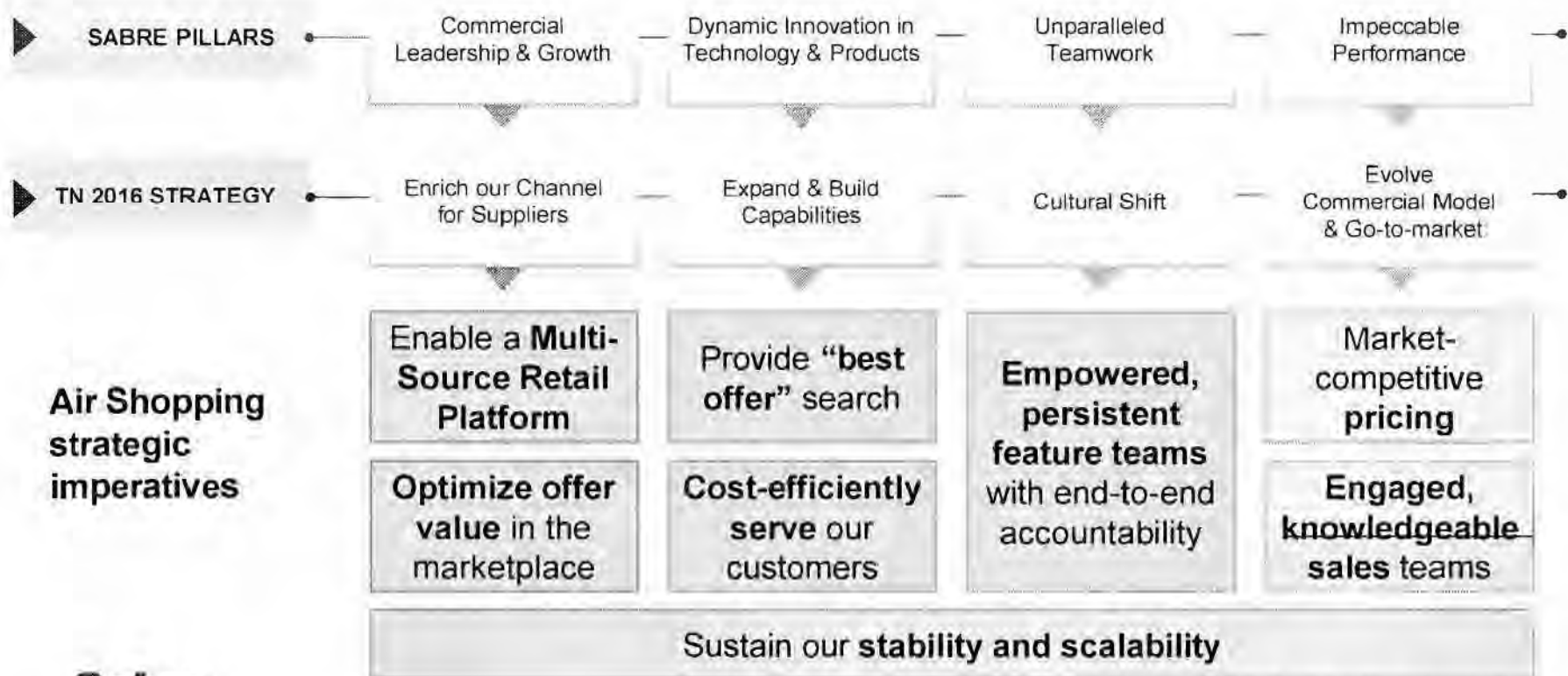
Teamwork

- Piloting team-based funding; 2018 investments based on team-level funding
- Defined approach to persistent, cross-functional teams

Impeccable performance

- Dedicated three persistent stability teams, [REDACTED] investment in 2017
- No P0 / P1 since May 2017; target is 12 months
- Independent, 3rd party stability assessment underway

Where we are headed



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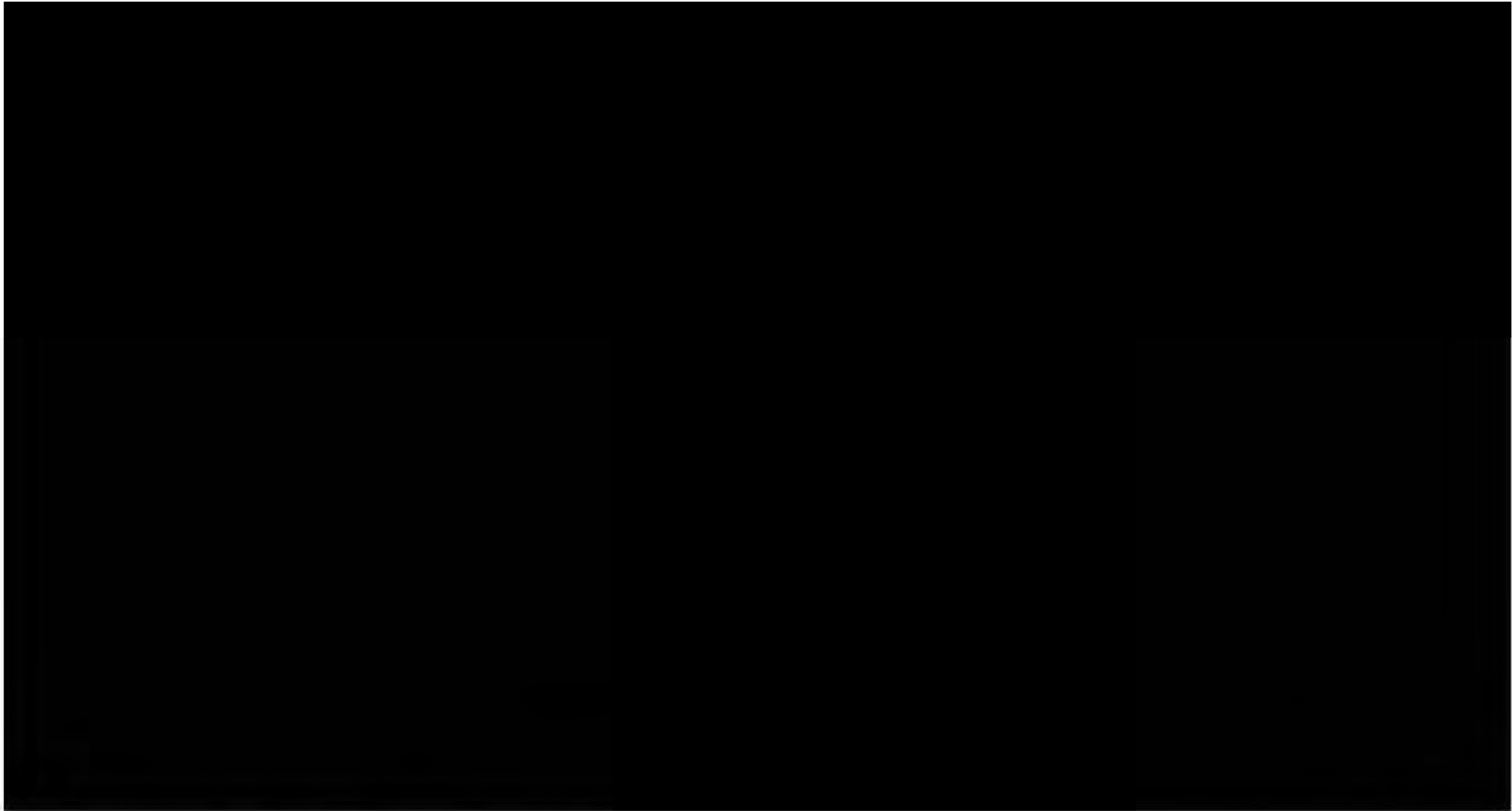
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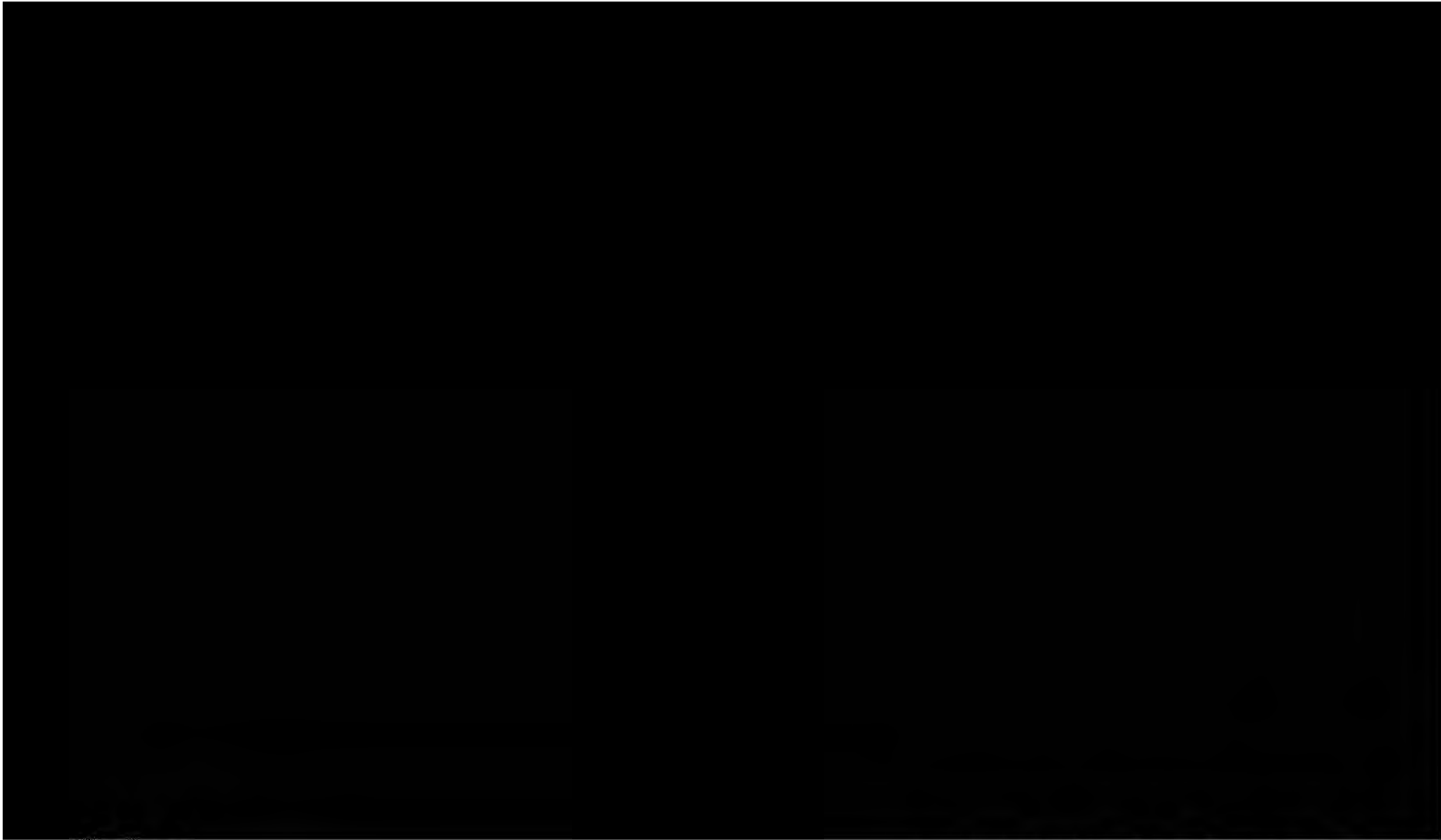
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There is a multi-dimensional aspect of Supplier Commerce negotiations



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Agency sales and account management play a critical role in TN's value chain



The underlying question driving strategic decisions in the agency space



What is Sabre doing to focus our efforts and ensure that we are winning in the marketplace with the right customers?

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Next steps

- Drive to agency level P+L detail
- Better understand industry-wide profit pools
- Refine our sales and account management strategy at a segment and regional level
- Further align our product, marketing, sales, and account management strategies

Sabre Hospitality Solutions

Summer Strategy Session, August 2017

Clinton Anderson & Balaji Krishnamurthy



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Executive summary

- SHS has delivered 5-year revenue and EBITDA CAGR of 21% and 38% respectively
- SHS is executing a three part strategy across both segments and products

Status / Adjustments

1. **Grow distribution share of wallet in the core:**
Focus on OTA adoption and direct booking capabilities



Healthy core, need to execute on OTA product adoption, IBE and VA product launches; innovation must keep pace

2. **Become provider of choice in Enterprise:**
Execute successfully with Wyndham, win the next deals



Need to ensure WHG is successful, harden our product and processes for Enterprise

3. **Invest to build a significant/sustainable PMS business:**
Execute v4.0 development, line up deals, plan for Full Service



PMS v4.0 delivery critical for success, need to figure out path to FS PMS by end of year

- SHS has the potential to grow to [REDACTED] revenue, but capabilities need to be hardened to pursue PMS and Enterprise opportunities
- Risk-adjusting for PMS and Enterprise, with no large M&A, SHS is still a double-digit grower over next 5 years
- Need to balance investment across: a) scaling SHS capabilities, b) CRS innovation, c) Enterprise pursuits, d) PMS, and 5) International Growth. Unclear whether we can pursue all in parallel → Hard choices this Fall

Most companies aspire to outgrow their market

Revenue growth target:
2x market

Earnings growth target:
4x market



Only 1 in 9 outpace market
revenue & earnings >10 yrs

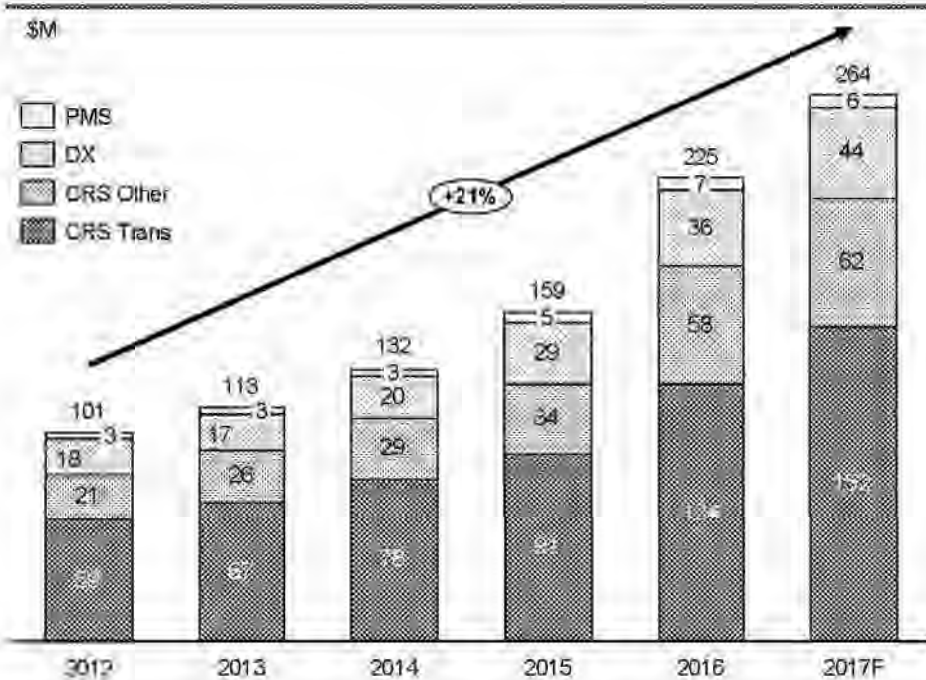
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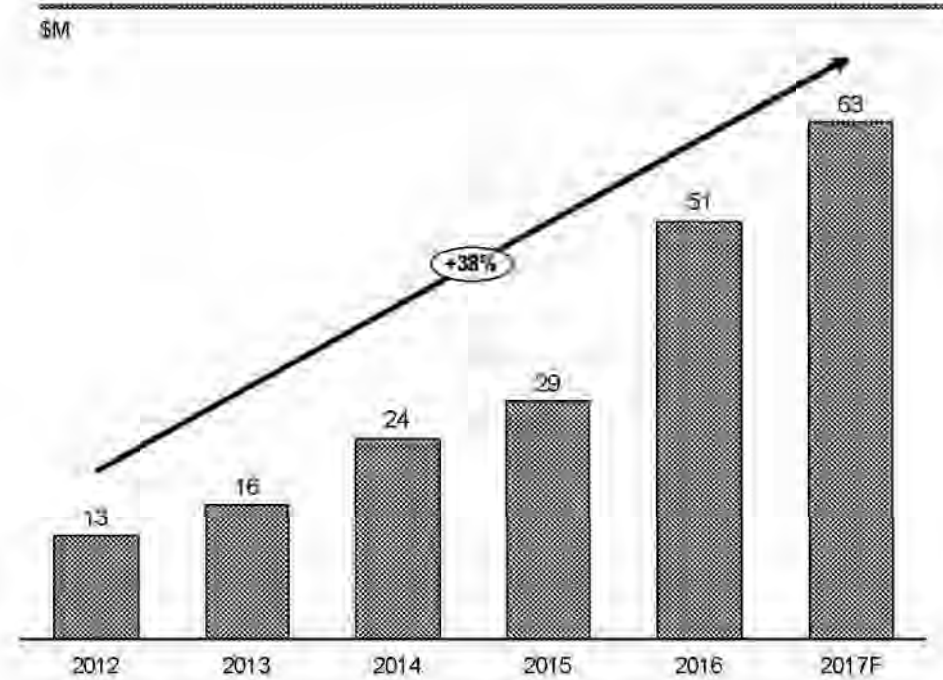
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SHS has delivered strong revenue and EBITDA gains through a combination of new wins, same-store sales growth, and M&A

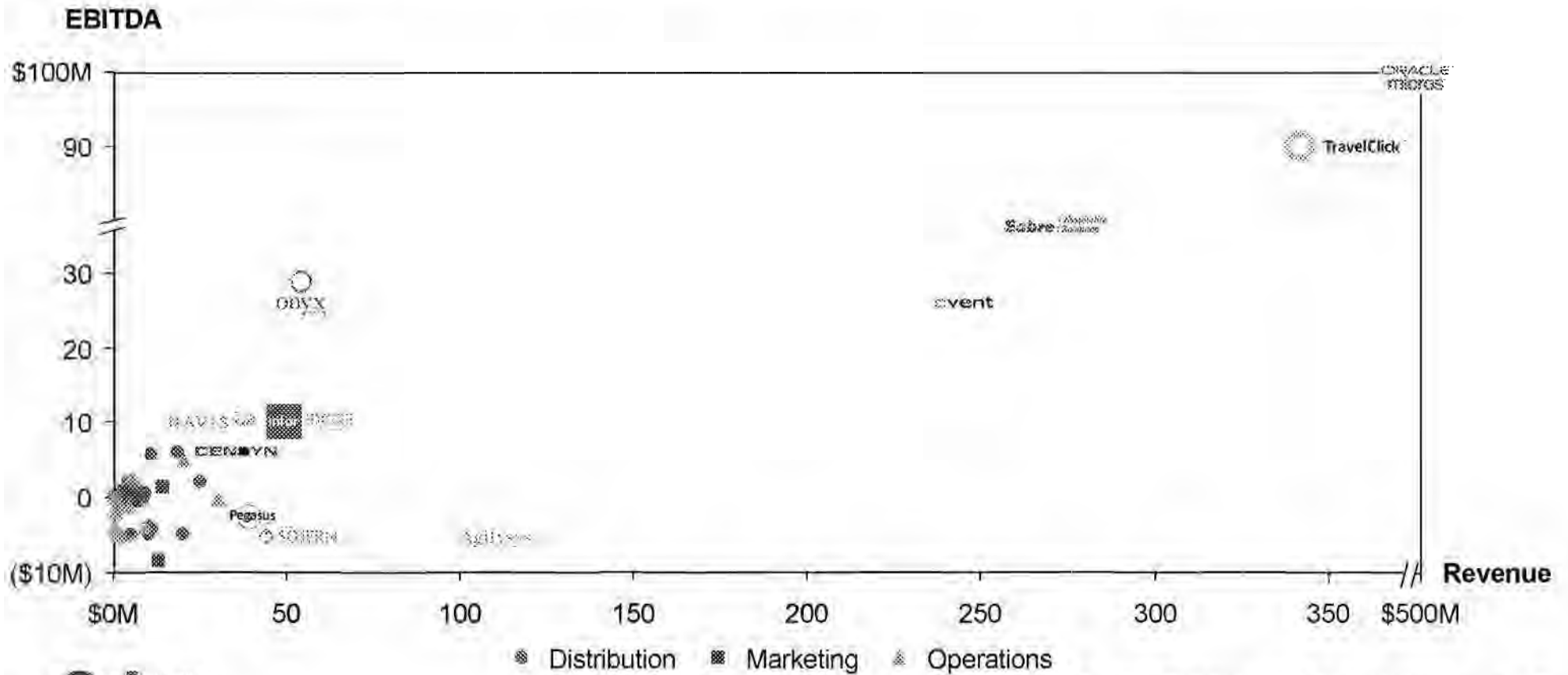
SHS Revenue



SHS EBITDA



Only two companies in hospitality technology with \$300M in revenue



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Hospitality industry trends fueling growth

- Ongoing strong global macro environment with 29 consecutive quarters of positive US GDP growth since the last recession
- U.S. hotel industry RevPAR up for 88 consecutive months, even as supply growth expected to surpass demand
- Similar to airline industry, yet still earlier in the process, many hotel chains are deciding to outsource their technology and operations
- Explosive OTA growth powered through industry consolidation and outsized marketing spend relative to hotel brands
- Hotel brands investing in loyalty and direct booking venues to counter the growing power of OTAs for “top of the funnel”



SHS has the potential for continued impressive growth



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Investor | 4207 Gessert Blvd. | San Francisco, CA 94134

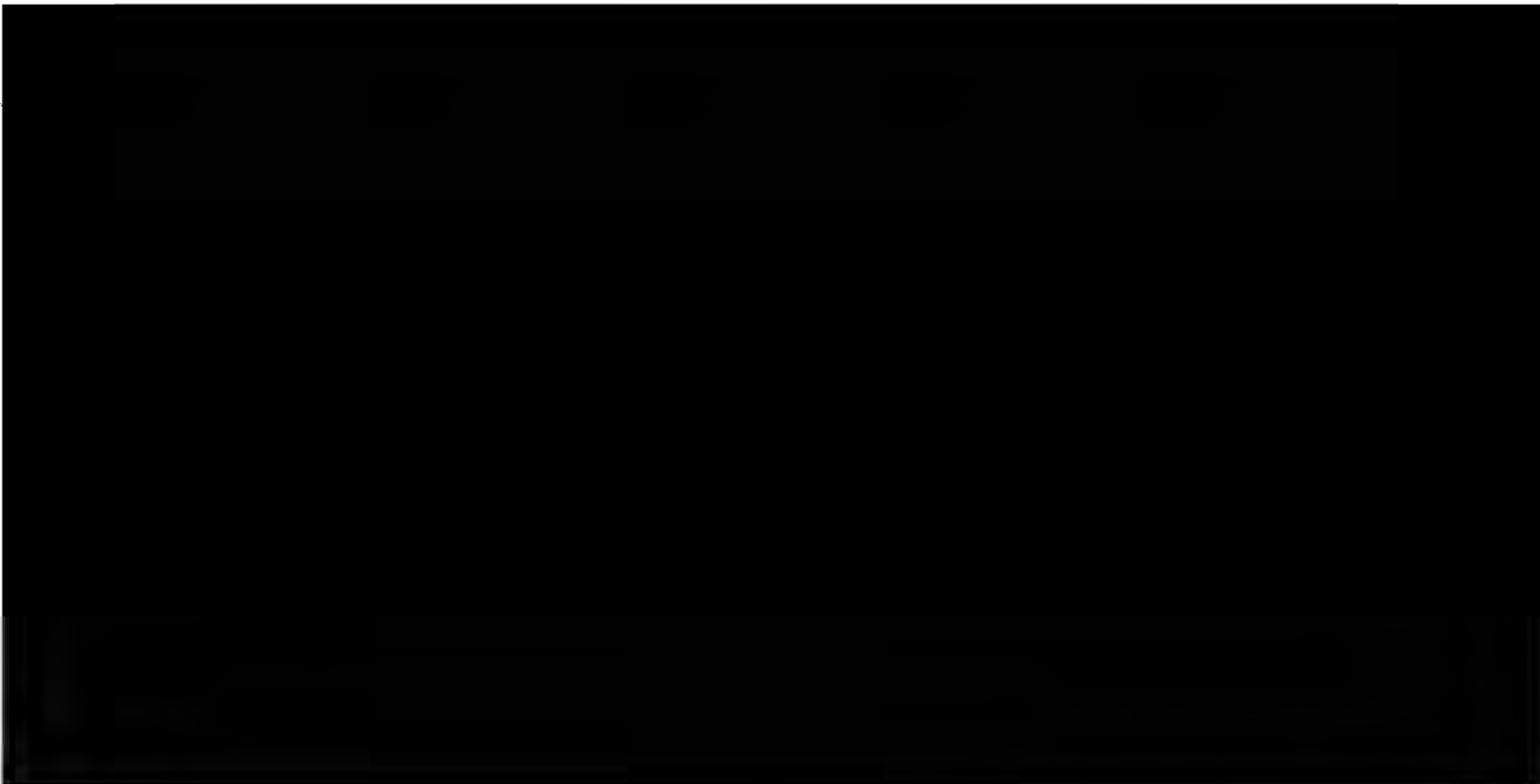
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SHS has the potential for continued impressive growth





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This isn't unique; it is typical of high growth businesses



Small Company Growth

- Nascent processes/few tools
- Product isn't hardened (but good enough)
- Heroic efforts by few (STP principal)
- Growth pains addressed by adding resources to the problem
- "All revenue is good revenue" mantra
- Platform challenges



Sustainable Growth at Scale

- Standard, repeatable, scalable processes
- Use of tools/automation to enhance scale
- Hardened products
- Heroes replace by empowered/focused many
- Focus and relentless pursuit of core markets
- Smart expansion (product, customer, geographies)
- Scaling platforms

One overarching question (really an imperative) for SHS...

How do we grow at scale?

...Followed by an economic truth

Resources are limited,
so where do we invest scarce
time, capital and talent?

We can learn from our team's experience in AS

market sell serve operate
the way you want



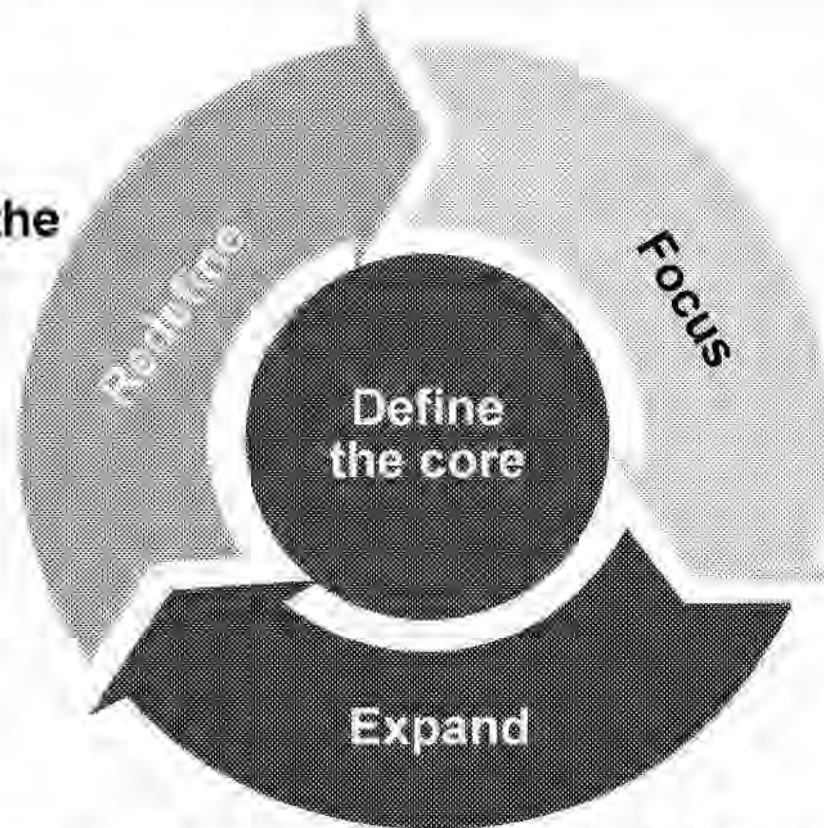
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A framework for growth

When and how
will I need to redefine the
core?



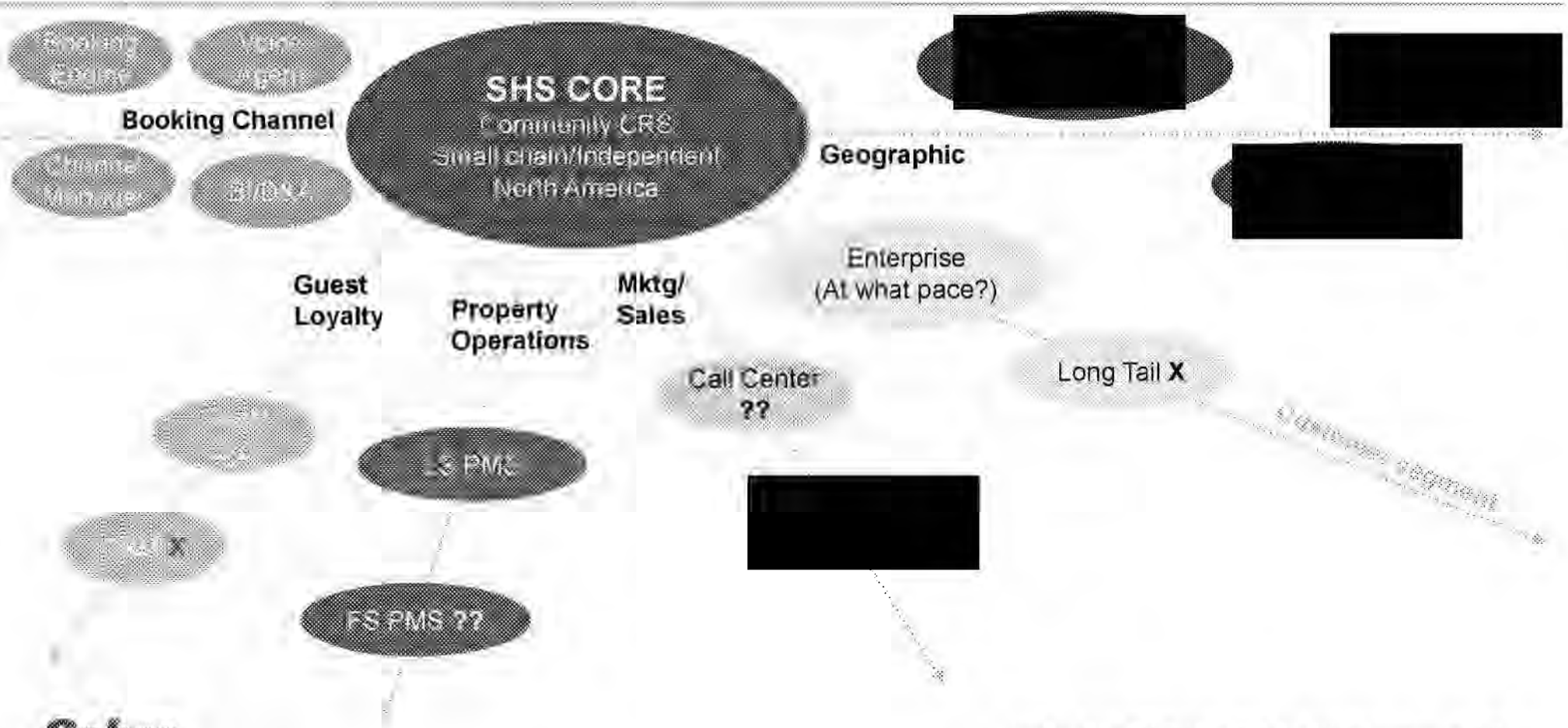
What is the **full**
potential of the
core?

How do you **expand** into **adjacencies**
with a repeatable formula?

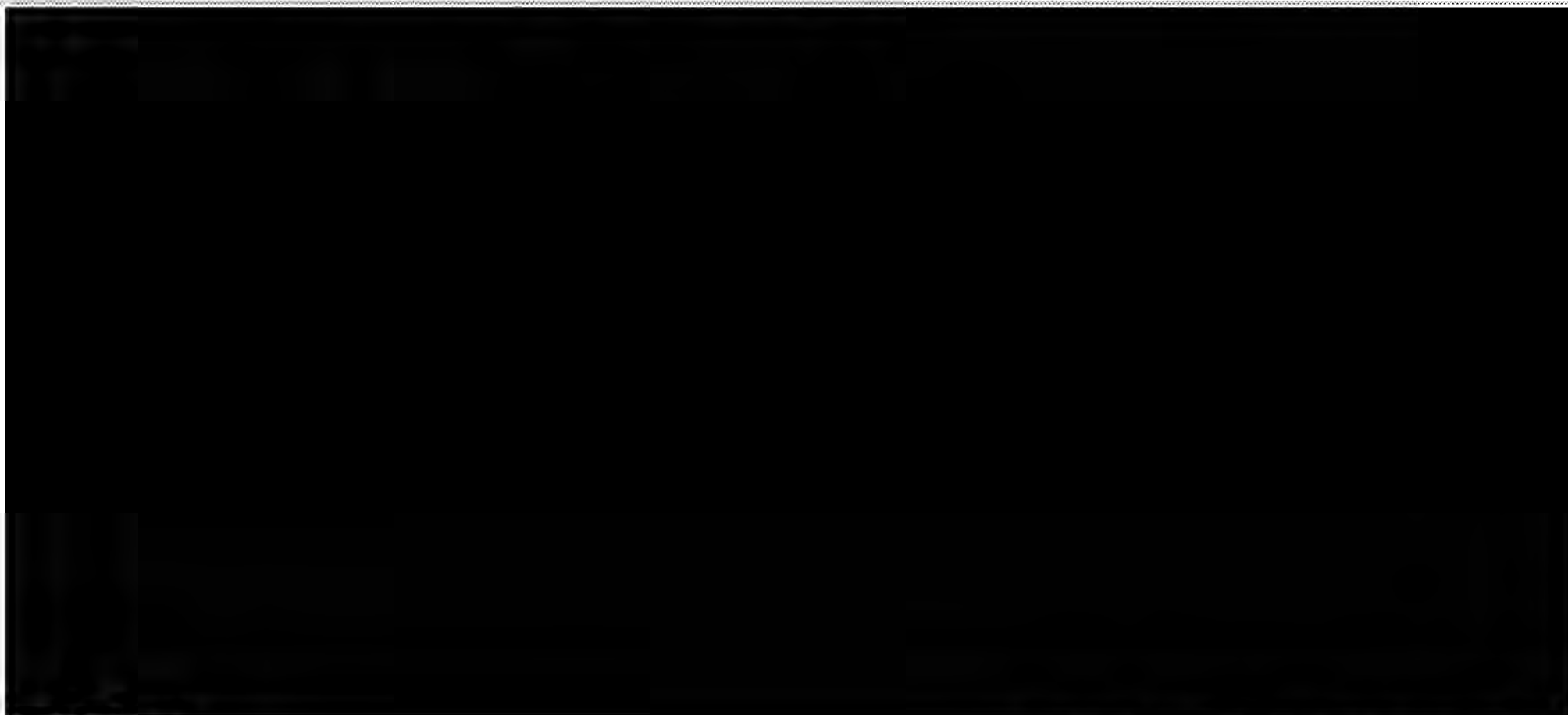
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SHS Core and Adjacency Evolution



SHS end-state vision / aspired landing zone



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Key questions for today's discussion

- 1 How do we grow distribution share of wallet in the core Mid-Market CRS?
- 2 What is required to successfully win and serve [REDACTED] customers?
- 3 Can we succeed in Limited Service PMS? What about Full Service?
- 4 What is the greatest competitive threat in the marketplace today?
- 5 What is our path to [REDACTED] What underlying capabilities do we need to build? What tradeoffs does that require?

Key questions for today's discussion



1

How do we grow distribution share of wallet in the core Mid-Market CRS?

What is required to successfully win and serve [REDACTED] customers?

Can we succeed in Limited Service PMS? What about Full Service?

What is the greatest competitive threat in the marketplace today?

What is our path to [REDACTED] What underlying capabilities do we need to build?
What tradeoffs does that require?

Collision between indirect and direct distribution in hospitality: Sabre is well-positioned to benefit from both sides



MAJOR HOTEL BRANDS ARE INVESTING IN LOYALTY AND DIRECT CONVERSION TOOLS TO DRIVE DIRECT BOOKINGS



launches major updates to its a year after launching the biggest campaign in the company's year history, promoting discounted, member-only rates for direct bookings

announces the company's most significant redesign of increasing contributions generated by proprietary reservation systems by 240 basis points from previous year to over 50%

growth in the digital retail channel rate up 5% while OTA growth rate is down 2% since the launch of loyalty member rates

guarantees the best rate booking direct; if a guest discovers a rate that is lower than their websites, they will honor the rate plus a 25% additional discount.

OTAs ARE FUELING GROWTH WITH LARGE MARKETING BUDGETS AND CONSOLIDATION



spent \$8.7B in marketing (average increase of 26% over the prior year), significantly outspending hotels, especially in SEO, and winning OTA channel share from direct

have consolidated the OTA landscape, spending \$7.5B in acquisitions from 2013 through 2016 globally

OTAs are competing on loyalty by offering their own reward programs and by automatically linking customers to hotel reward programs on their sites



Property Direct



BE



Voice



OTA

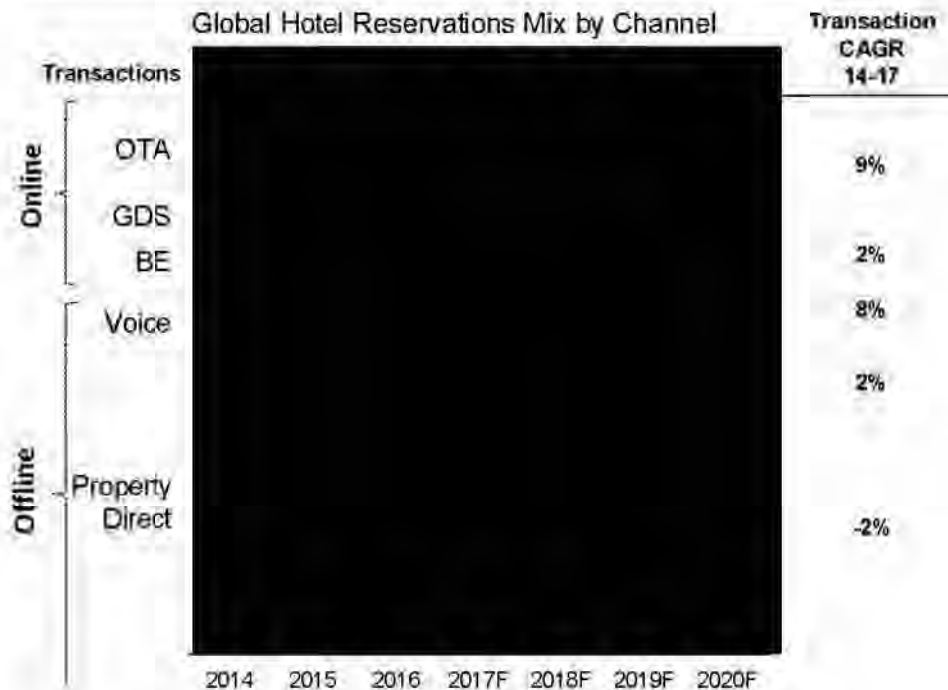


GDS



Hotel Distribution market shifting toward online channels, with OTAs steadily outpacing growth relative to other channels

With heavy consolidation, the OTAs have steadily increased booking share in the market



Key distribution trends

- OTA is the fastest growing channel, fueled by consolidation and [redacted] in combined annual marketing by Expedia and Booking.com
- GDS remains a stronghold for corporate agencies, though usage among independent and leisure agencies is declining
- Chains are making a major push to encourage hotel.com bookings through loyalty programs and by offering additional incentives
- Despite increasing prominence in digital distribution, especially ancillary sales, voice remains a stable [redacted] of channel booking



Source: Phocuswright, Skift, Kalibri Labs, SHS Analysis

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SHS distribution growth driven by GDS and OTA channels, with significant runway for growth in the OTA channel

OTA revenue growth is tied with GDS but at much lower base

OTA booking growth is twice the rate of GDS; now makes up half the CRS volume

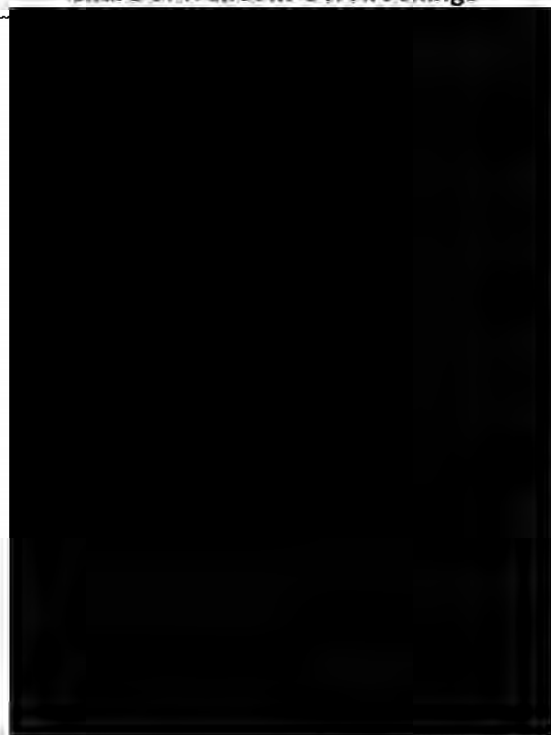
Significant runway for growth in Distribution, especially in OTA



OTA has the largest opportunity for growth and is critical to core distribution growth

SHS is pursuing a 4 part strategy to increase adoption of OTA connectivity

Significant opportunity to grow share of wallet in OTA bookings



	Challenges to address/overcome	SHS strategy	Progress to-date
1 Product	Competitor Channel Manager solutions are highly streamlined, simple, and easy to use	Developing easy to use, simplified UI targeted to less sophisticated Independent hoteliers and small chains	
2 Connectivity	Need greater breadth of connectivity to OTAs and Tour Operators, especially outside NAM	Adding relevant channel breadth and enhancing connection reliability	
3 Delivery/activation	Reduce implementation complexity and activation lead time, while providing responsive support	Reducing setup time to less than 5 days by optimizing and automating end-to-end process	
4 Price	Need competitive pricing to counter heavy discounting by Channel Managers (e.g., Siteminder)	Launched value-based flat pricing model in each regional market (pilot and rollout in Q1-Q2 2017 successfully)	

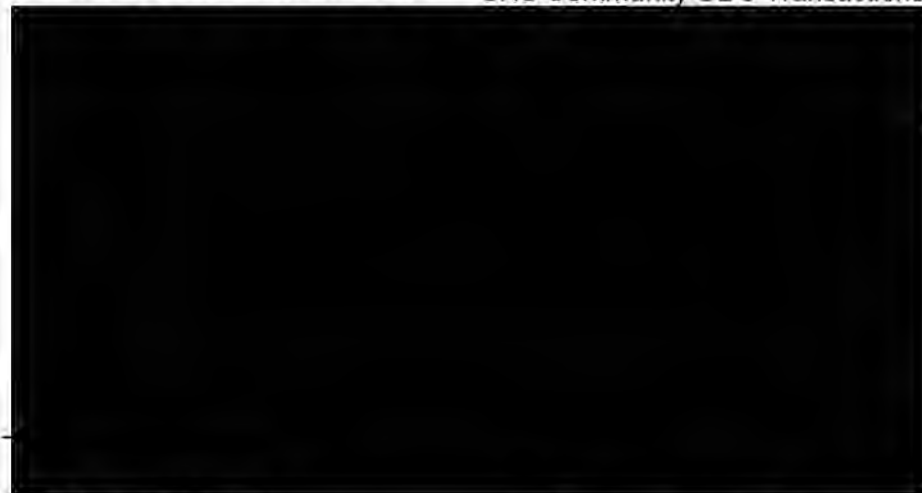
Value based flat pricing model has helped customers in winning new properties



SHS can maintain its GDS growth by continuing to increase market share (new store), and by enhancing the GDS hotel platform

Top three corporates account for more than half of total GDS transactions; New hotel chains drive majority of SHS growth

All Sabre GDS Hotel Transactions SHS Community GDS Transactions¹



Top 3 Global Corporates
 New Store
 Same Store
 The Rest

Sabre can grow share by enhancing the GDS hotel platform to address key agency needs around supply quality and economics



Supply: Lack of relevant hotel inventory, competitive rates, and availability are the primary reasons Sabre agents and corporate travelers book outside the GDS

- Internal shopping comparison showed Sabre hotel supply was less attractive [redacted] of the time versus OTAs and hotel direct
- Supply gap is largely driven by higher rates ([redacted]), property not available in Sabre ([redacted]) or sold out inventory ([redacted])



Economics: Agencies can load and manage their own rates through Sabre and earn commissions on corporate negotiated rates, but cannot access the best aggregator / OTA rates in the marketplace

- Agencies have expressed dissatisfaction with their ability to manage supply (suppression, preferencing, etc.) to optimize hotel revenue



(1) Excludes transactions from Enterprise and Trust
Source: Sabre analysis, SynXis CRS

CRS/Distribution Implications

- ① Need to be successful in Next Gen Booking Engine and Voice Agent product development and go-to-market in 2018
- ② Complete our EMEA and APAC strategies for core CRS
- ③ Complete Trust Voyager migration
- ④ Channel manager is a must win, but a two edged sword, handle with care (price erosion)
- ⑤ As a company, figuring out the GDS hotel path could benefit TN and SHS

Key questions for today's discussion

How do we grow distribution share of wallet in the core Mid-Market CRS?

▶ **2** What is required to successfully win and serve [REDACTED] customers?

Can we succeed in Limited Service PMS? What about Full Service?

What is the greatest competitive threat in the marketplace today?

What is our path to [REDACTED]? What underlying capabilities do we need to build?
What tradeoffs does that require?



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The Enterprise segment consists of [REDACTED] properties, and proliferation of in-house legacy systems

Enterprise Accounts ranked by number of properties



Total property count: ~50,000

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However, the Enterprise market is not without challenges

Characteristics of the Enterprise segment



Need for significant customization



Scale demands can overwhelm small company resources



Higher product expectations



Expectation of a "perfect release"



Large-scale implementations with tight timelines and stringent SLA's

Implications for SHS

██████ of PMS product development and ██████ of CRS product development unique to WHG versus broader community

██████ development resources allocated to WHG development over the last year

Gaps in feature/functionality versus customer requirements has delayed WHG implementation/rollout by almost 2 years

Need for systematic product development and testing platform to deliver high-quality software

Need for Enterprise-grade delivery, program management and customer care

SHS is increasingly in discussions with [REDACTED] customers; but have yet to prove our ability to win and implement in this segment beyond [REDACTED]

Enterprise Pipeline by Stage of Sales Cycle



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SHS is adapting its Enterprise Strategy based on key learnings to-date



Sales

Key learnings

- Top-down selling to complement bottoms-up sales approach
- Deep technical/ product engagement at every stage of sales cycle



Adjustments

- Foster C-level relationships
- Expand sales capacity in solutions selling
- Use DX, D&A and Consulting to get foot in the door



Product

Key learnings

- Product roadmap flexibility to meet targeted customization needs
- Best-in-class solution with broad and deep integration with other core systems



Adjustments

- Design upfront for performance, scalability and reliability
- Develop products in collaboration with customer needs/requirements
- Scope customer needs rigorously



Delivery/Implementation

Key learnings

- Need robust program management and change management skills
- Highly complex implementations with large spikes in required engagement



Adjustments

- Upgrade talent to build program/change management capabilities
- Leverage automation tools to reduce deployment time
- Evaluate Systems Integrators partnerships



Customer Support

Key learnings

- SMEs to handle complex, high volume tickets
- Advanced product knowledge required for Level 2 support

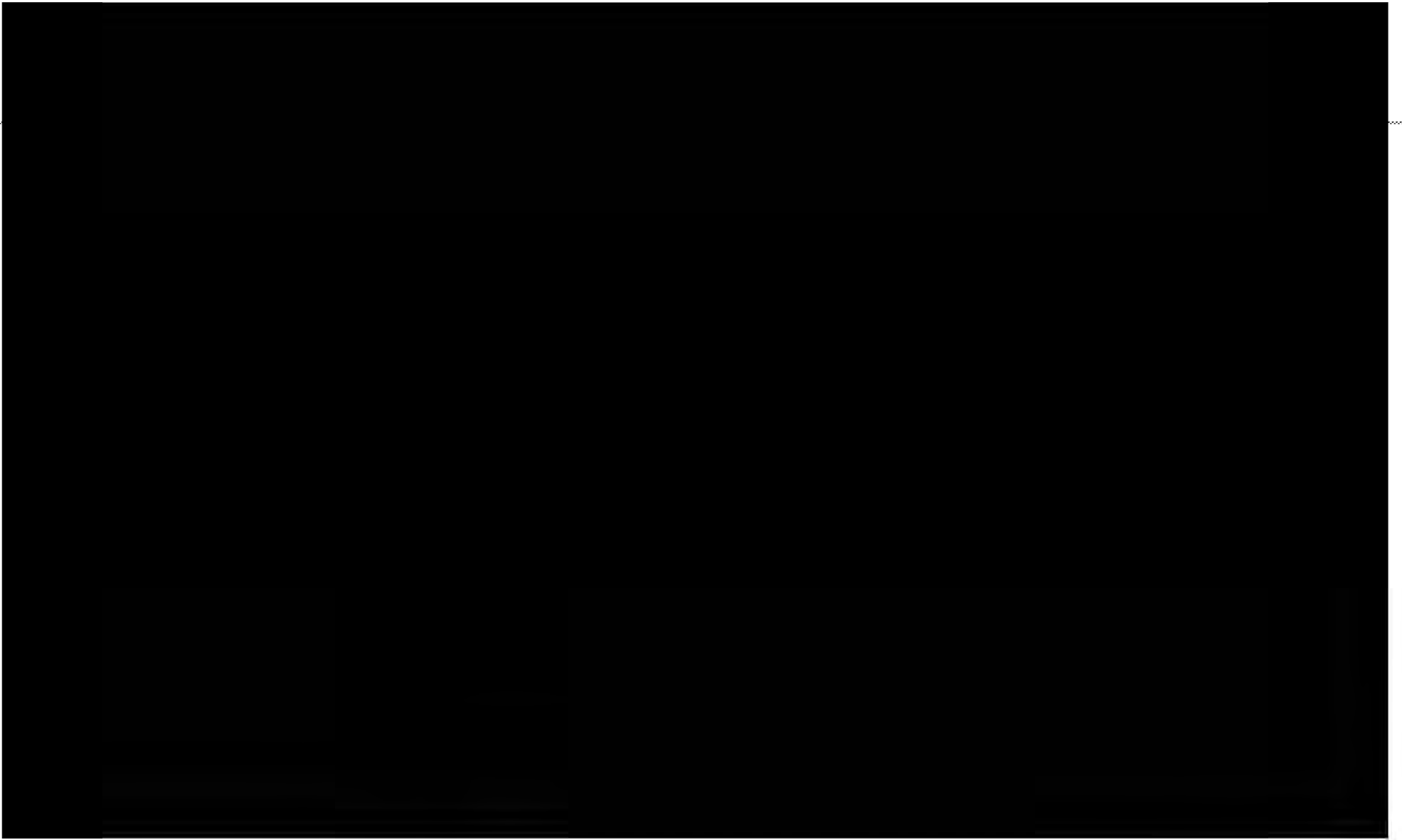


Adjustments

- Create dedicated desk/resource model to improve SLA adherence
- Fill the gap between product evolution and helpdesk product expertise

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Enterprise Implications

- ① Enterprise chains will outsource an increasingly significant portion of their technology to third-party partners; this trend will create material growth opportunities for SHS
- ② However, we have learned that serving the Enterprise space is fundamentally different challenge than growing the Mid-Market Community model
 - Product functionality/quality expectations
 - Pace of implementation/program management (much higher level of scrutiny and a measured approach)
 - Delivery requirements/expectations
 - Expectations re: customization
- ③ [REDACTED]
- ④ Across the board, we need to up our game (product, process, tools, talent) in the areas of product management, design, development, delivery, support and account management

Key questions for today's discussion

How do we grow distribution share of wallet in the core Mid-Market CRS?

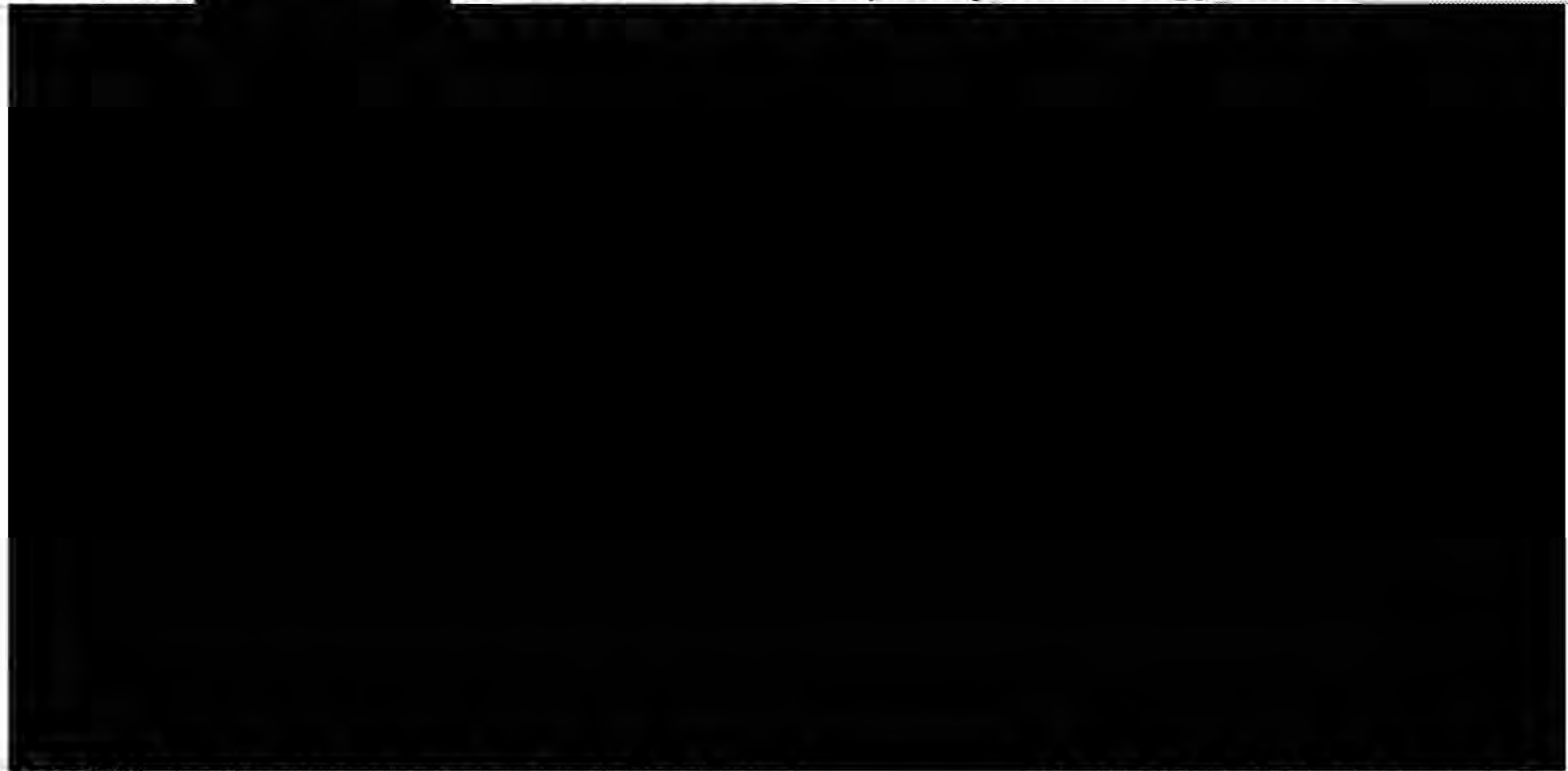
What is required to successfully win and serve [REDACTED] customers?

▶ **3 Can we succeed in Limited Service PMS? What about Full Service?**

What is the greatest competitive threat in the marketplace today?

What is our path to [REDACTED] What underlying capabilities do we need to build?
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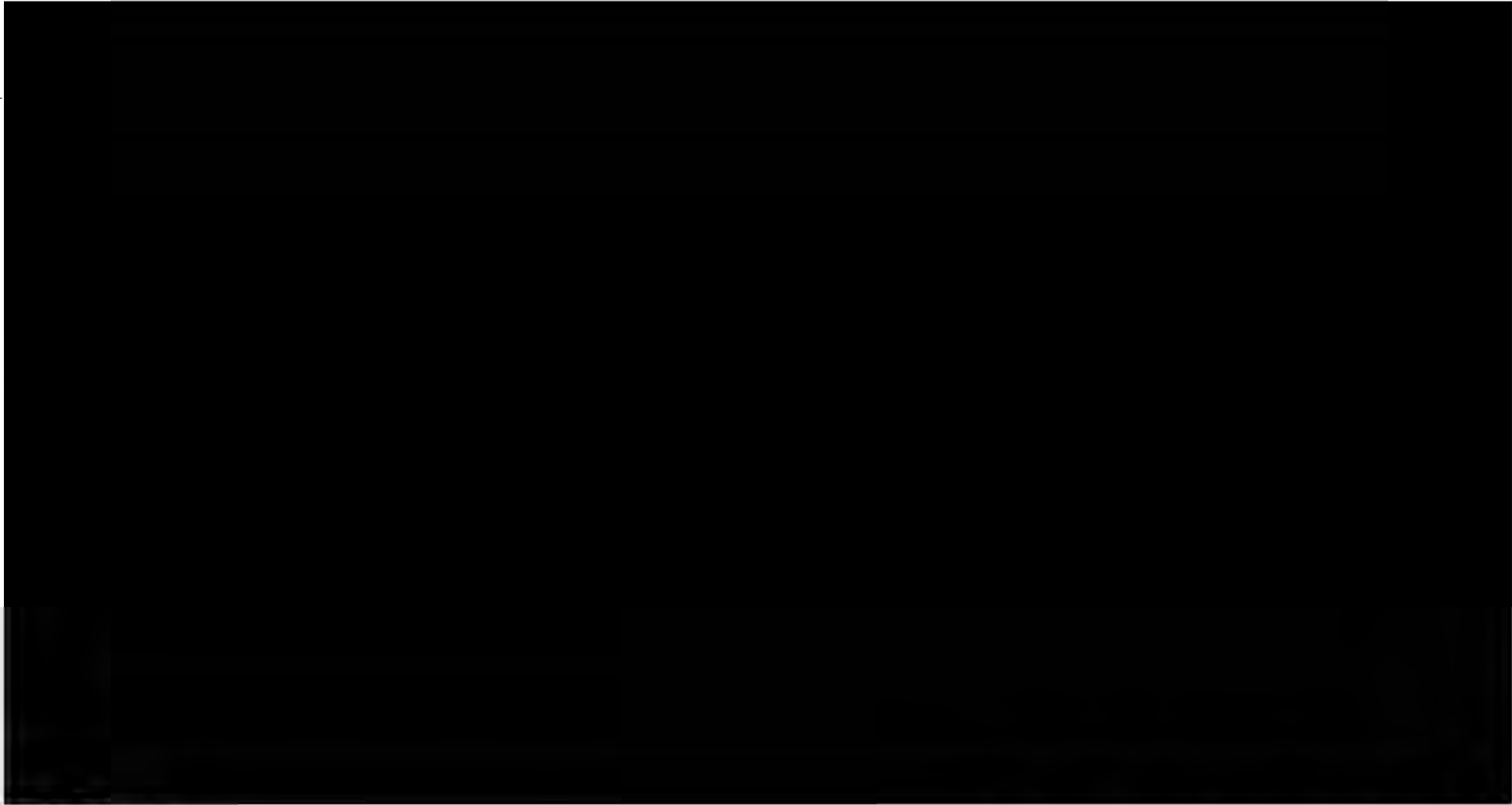
Property Management (PMS) represents the largest opportunity with an estimated [REDACTED] of the total \$6.0B hospitality technology market



Source: Sabre analysis, expert interviews, surveys, review of public materials/documents
Note: PMS includes first year Implementation fees

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While the [REDACTED] PMS market opportunity seems sizeable, the opportunity is significantly reduced without a FS offering to [REDACTED]

PMS Total Addressable Market (TAM)

PMS opportunity without FS offering



* MM is estimated using current CRS customer base; Ent. is estimated using 30% win rate leading to a blended win rate of 16% (i.e., expect to win 1 out of 6 deals)

Given SHS current business context, getting LS right is a prerequisite for winning in FS

Our success in the greater PMS space hinges on our ability to deliver value to Enterprise

LS PMS product architected to be foundation for FS PMS product

Stage gates (KPIs) before we proceed to FS

Mid-market
Independent

Enterprise



- Develop market leading PMS offering using best-in-class architecture, design, and user experience
- Build for LS space with expansion into FS space (single LS product meets needs of both Enterprise and Mid-market/Independent segment)
- Deliver on critical [redacted] gaps for Q4 LS pilot
- [redacted] as the potential launch partner for PMS LS V4.0

- Scalable sales pipeline
- Pricing assumptions validated
- LS contract with a 2nd chain signed
- PMS V4.0 (LS) delivered
- [redacted] (LS) referenceable
- FS requirements completed

We are sequencing product development to establish LS leadership before embarking on FS product development

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Key questions for today's discussion

How do we grow distribution share of wallet in the core Mid-Market CRS?

What is required to successfully win and serve [REDACTED] customers?

Can we succeed in Limited Service PMS? What about Full Service?

▶ **4** **What is the greatest competitive threat in the marketplace today?**

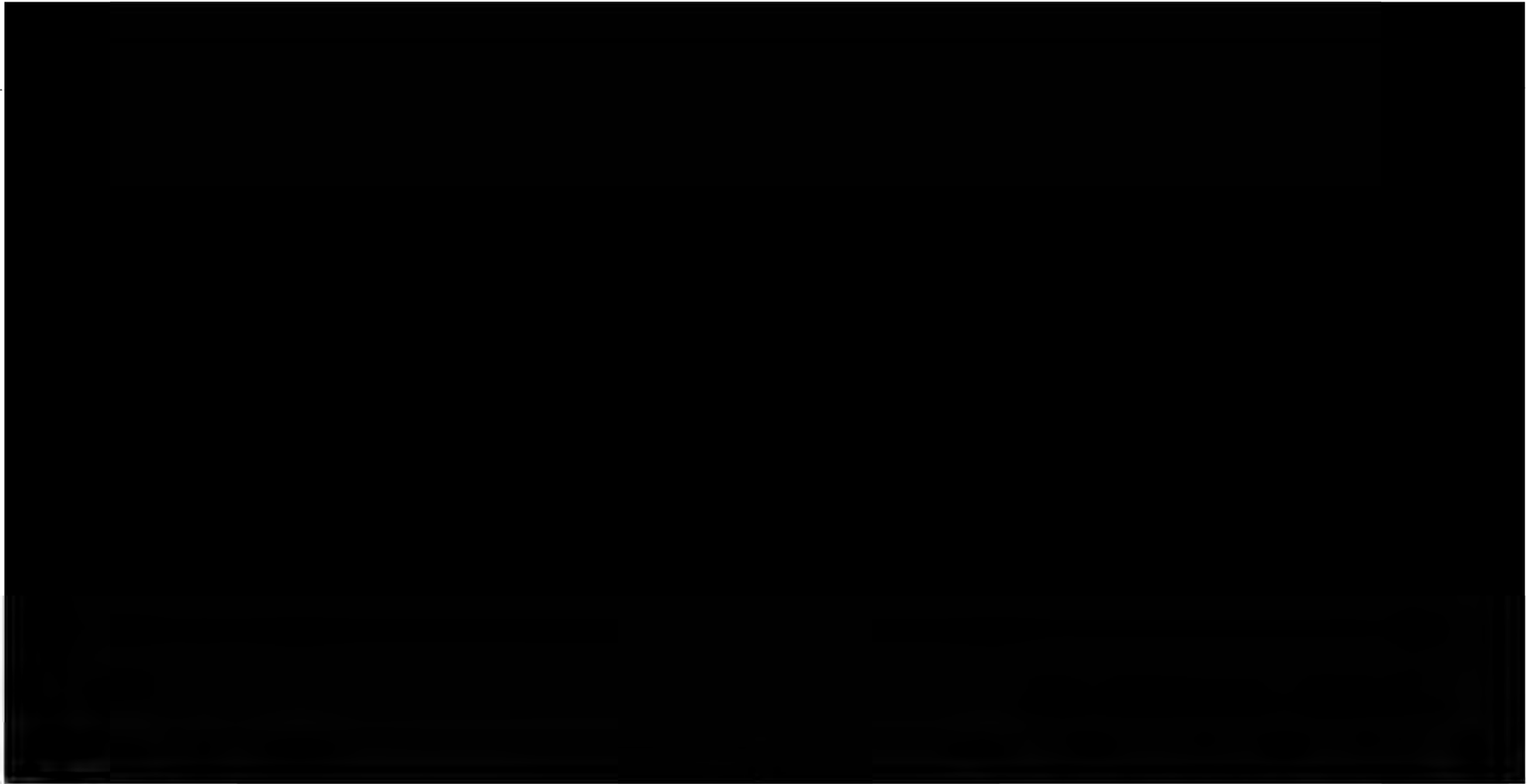
What is our path to [REDACTED] What underlying capabilities do we need to build?
What tradeoffs does that require?



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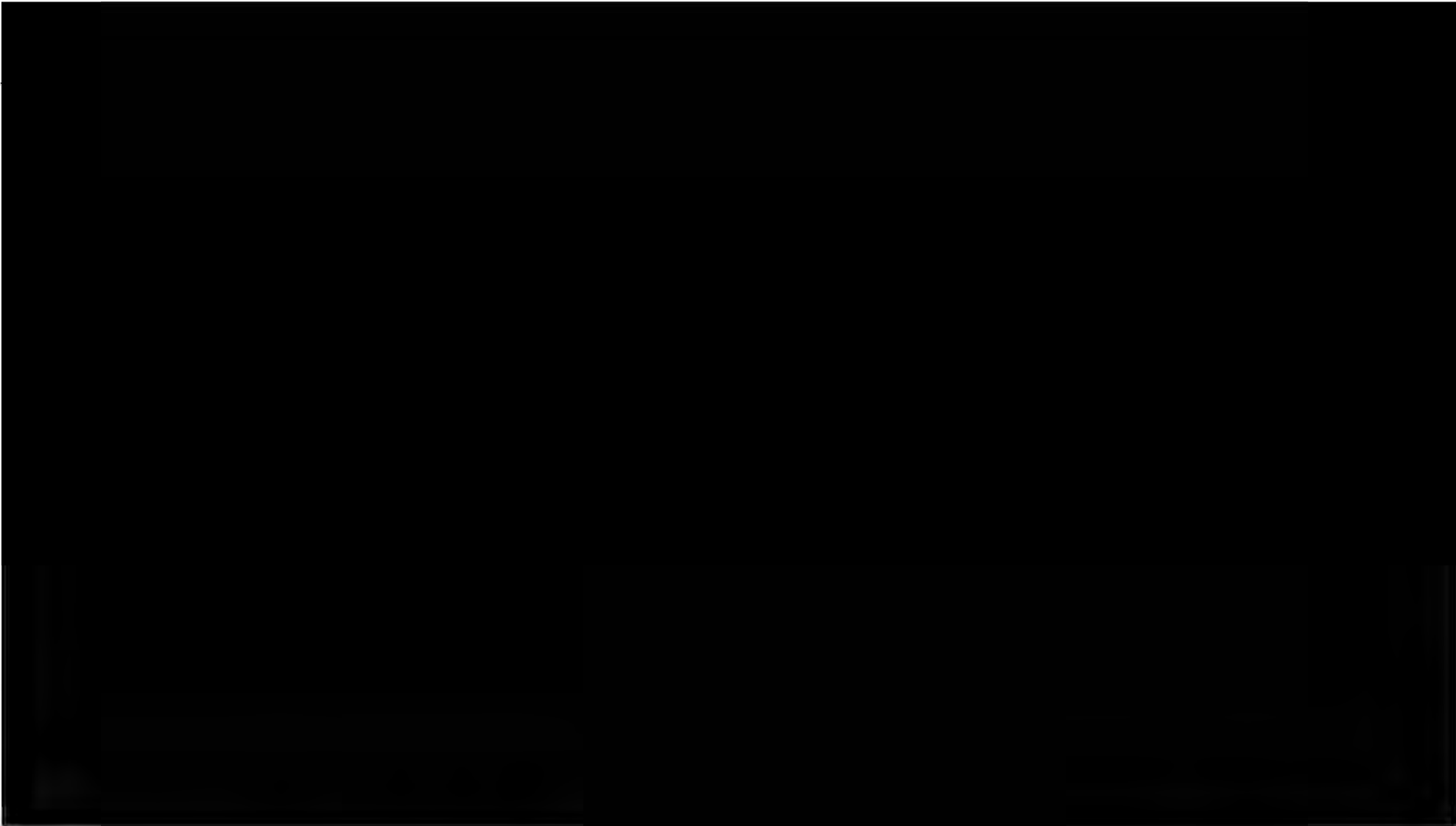
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[Redacted]



Competitive Implications

- ① We need to defend core CRS (and related innovation), and find our path in the PMS marketplace
- ② [REDACTED] (the old, the new) are the two players with the resources to benefit at scale from the outsourcing trend
- ③ We need to avoid distractions that cause deviation of resources, time and talent

Key questions for today's discussion

How do we grow distribution share of wallet in the core Mid-Market CRS?

What is required to successfully win and serve [REDACTED] customers?

Can we succeed in Limited Service PMS? What about Full Service?

What is the greatest competitive threat in the marketplace today?



5

What is our path to [REDACTED] What underlying capabilities do we need to build? What tradeoffs does that require?

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And not Or

In order to achieve:

GROWTH

SPEED

We must first ensure:

STABILITY

SECURITY

QUALITY

SHS 1H Operating Metrics

Metric	1H Target	Status	Areas for Improvement
			

Finish 2017 Strong



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A Cultural Individual

- We all own **stability, security, and quality**
- **Everyone must be empowered** to speak out when you see opportunities for improvement
- **Escalation is not a failure; it is a responsibility**

Risk-adjusting for Full Service PMS, SHS has the opportunity to generate continued YoY double-digit growth and strong FCF



Scenario Description

- Limited Service PMS only + Large M&A
- Limited Service + Full Service PMS (Independent & Enterprise)
- Limited Service PMS (Independent & Enterprise)
- Continued growth in core distribution market
- Tuck-in CRS acquisitions



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