



Can software **promise**  
on-time departures?

ask me how  
NEXT-GEN MRO TECH  
can **lower TAT**

**ramco** aviation

*presents*

**N-GAPS** Next-Gen Aviation Problem Solvers

*powered by*

Machine learning

Cognitive analytics

In-memory based algorithms

## Ramco quick bytes



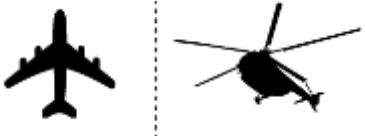
**4000+ aircraft & 17,000+ users**

trust Ramco Globally



**Malaysia Airlines group Goes Live in record time**

in under 11 months



**Largest operators of 7 OEMs run on Ramco**

Bombardier - Bell - Sikorsky - Airbus - Embraer - Chinook - Agusta Westland



**Ramco raises \$52 Million through Goldman Sachs,**

and other valley investors to expand next-gen technology pursuits globally

# Agenda

N-GAPS

Key technology innovations

About Ramco

# Agenda

## N-GAPS

Key technology innovations

About Ramco

What are  
N-GAPS



# N-GAPS

Next-  
Gen  
Aviation  
Problem  
Solvers



Built ground  
up to fill the  
voids in your  
existing  
system



to ensure your  
Maintenance  
operations  
are future  
Ready



& seamlessly  
integrate with  
any pre-existing  
M&E MRO  
system



Next-gen  
focused  
leveraging  
cutting edge  
technology

Presenting N-GAPS

## Next-Gen Aviation Problem Solvers



e- Enablement  
Loadable Software  
Airplane Parts  
Mgmt



Performance Redefined  
Advanced  
Reliability



Smart Tail your fleet  
Tail Planning &  
Optimization



Optimized Resource Mgmt  
Maintenance Optimization  
& Shift Planning



why order when its covered  
Warranty Tracker

Presenting N-GAPS

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## e- Enablement LSAP Management – Loadable Software Airplane Parts

ramco

The era of the **connected flight** has dawned upon us



Built from the ground up  
to be  
**Highly Software  
Dependant**



How do you  
manage over **300+**  
**software upgrades**

**Constantly**

**Solution!**

ramco

Introducing  
**Ramco's LSAP  
Management**

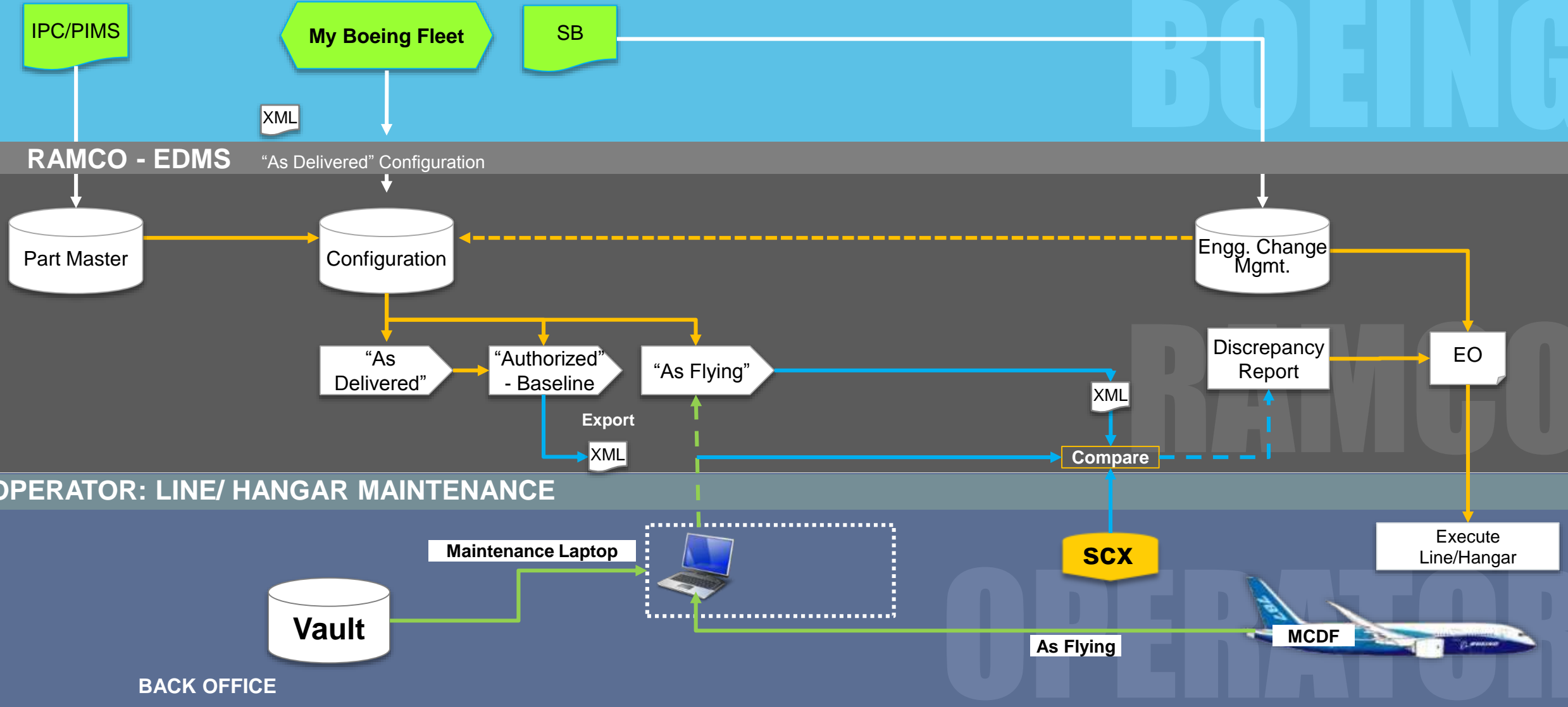
*Managing the era  
of the connected  
aircraft*

# Manage B787 LSAP efficiently

Loadable Software Aircraft Parts Management

ramco

## BOEING/ SUPPLIERS





## Key Business needs

- Inability in handling the 787 Aircraft Software Configuration
- Unable to integrate with Boeing SCX Tool for comparison and better visibility
- Non-automated Engineering Change Management (ECM) Process
- Non compliant with the ANSP requirements (Aircraft Network Security Program)

## Solution offered

- Built LSAP Configuration through integration with MBF(myboeingfleet.com)
- Provision to export latest LSAP Configuration (Hardware & Software) from
- Ramco Application to Boeing SCX
- Repository to maintain the Configuration Discrepancy Report
- Online process for Management level Authorization of Engineering orders
- One click evaluation report submission to any Regulatory Authority and KQ
- Internal Management

## Key Business benefits

- Online Monitoring to address any discrepancy between the 'Authorized' and 'As Flying' Software Configurations
- Generating Aircraft Configuration reports in XML for easy interaction with Boeing
- ECM of all 787 software Service Bulletins reviewed, authorized & maintained Online
- Managing the new era of connected aircraft

Presenting N-GAPS

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## Performance Redefined Advanced Reliability

ramco



Dispatch reliability of B777s, A380, ATR72 etc...

Actual fleet performance vs Industry avg

Drill down to identify rogue units

Monitor repeat defects

Total revenue FH/FC

and more...

at the  
**click**  
of a button



Multidimensional  
Reliability Analysis  
across **fleets**  
Owned  
Leased...



Mix & match,  
Sequence reports to  
generate report  
books.



Pre-configured  
work flow to  
publish OEM &  
Statutory reports



Flexible,  
Intuitive and  
ad-hoc  
reporting



Configurable Analytics  
dashboards for  
management reporting

**1**

Click Data  
Consolidation

**0**

Data Silos

**1**

Click Report  
Publishing



- One of the Largest Airline in the world
- Fleet of 200+ aircraft | Worlds Largest Fleet of A380
- Operates over 2500 flights per week to 130 cities across six continents



## Key Business needs

- Airline's reliability team spent most of their time in collecting and consolidating data (using excels), leaving little time for analysis
- Inability to publish reliability data in SPEC 2000 format for OEMs
- Difficulties faced in back-dating updates and iterative processing of reliability reports

## Solution offered

- Seamless integration with multiple external systems like M&E, safety etc. that was being used by the airline
- Consolidation of over 500+ data points for churning out valuable graphical trend analyses, reviews, corrections and report generations
- Enables 'click of a button generation' for ad hoc reports, executive dashboards and SPEC 2000
- (Chapter 11) compliant reporting for OEMs

## Key Business benefits

- Reduced time to furnish monthly reports from 7 to 2 days
- 100% increase in the identification of rogue components
- Complete data integrity across multiple systems, removing data silos out of the equation
- Tracking changes to reliability data with just a click
- Prepackaged analytics with complete cycle coverage from contract to collection
- Instant reliability report generation for regulatory compliance

Presenting N-GAPS

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U.S. DEPARTURES
ONE
TWO
THREE
FOUR
FIVE
SIX
SEVEN
EIGHT
NINE
TEN

## Smart Tail your fleet Tail Planning & Optimization

a day in the life of

# Robert Sikes

Head - Tail planning, Operations Control Center  
of a leading international airline

Rob's

**PROBLEM A**

Honoring every scheduled flight  
with a suitable tail from his  
arsenal

Rob's

**PROBLEM B**

Maximize yield & Minimize  
Cost

Rob has to plan across

200  
destinations

Intelligent  
transit route  
mapping

3000 flight  
schedules

Sub fleet vs  
Constraints

150 fleet size  
across 13 sub  
fleets

Scheduled  
aircraft vs aircraft  
under  
maintenance

Rob's

**Objective**

To efficiently assigning tail numbers to  
flight schedules that you and I book on



.com

let's add **complexity** & **reality**  
controlled & uncontrollable  
variables

  
200  
destinations

  
3000 flight  
schedules

  
150 fleet size  
across 13 sub  
fleets

DXB > SIN

## Flight Constraints

 Delays due  
to weather •

 Bird strike •

## Aircraft & Station constraints

 Cancellation •

 Docking in the  
wrong terminal •



## Connection constraints

 Hard landing •

 Maintenance  
resource on  
vacation •



# Ramco's 'In-memory Tail optimization algorithm'



Inputs all  
the

  
**200**  
destinations

  
**3000** flight  
schedules

  
**150** fleet size  
across 13 sub  
fleets

Considers  
all  
constraints



Suitable sub-fleet



ETOPS cert



RVSM cert



Minimum  
Ground  
Time



High-altitude flight  
capability



Ground Power  
availability vs on  
board APU



Crew Rest Area  
availability



FAK requirement



and assembles the  
most cost and resource  
optimized tail allocation  
possible  
**within seconds**

Presenting N-GAPS

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# Intuitive Maintenance Planning Maintenance Optimization & Shift Planning

 San Francisco  
Airport (SFO)

 San Jose  
Airport (SJC)

 Oakland  
Airport (OAK)



1

Planner at SJC gets a 3 hour  
heads up that an A380 will land at  
SFO

2

Ramco In-memory processing  
algorithm sends missing  
manpower alert to planner  
**A380 certified** aircraft  
engineer on vacation at SFO



5

Planner initiates movement  
of resource from OAK to  
SFO

3

Ramco's In-memory processing  
algorithm alerts planner of a  
certified A380 engineer idling at  
Oakland Airport

4



Ramco APO suggests planner –  
33 mins travel time on road via CA -  
92 W highway using integrated  
google maps

## Solution for Steve

-a day in the life of a maintenance planner



## How does it work?

# Ramco line planning and optimization\*

 **23** locations

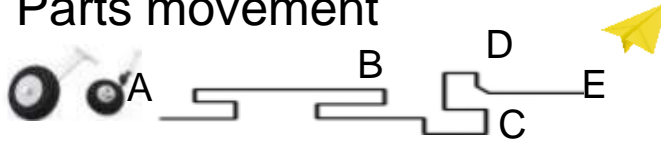
 Servicing **63** airlines  
Across **56** models

 **150** maintenance resources

## Before

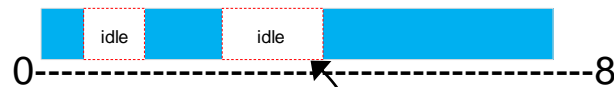
### Parts Logistics

Parts movement



### Shift planning

**8** hour shifts x **5** days with **idle** times



5 days work & **2** days off

Resource idle time added due to **variables**

### Aircraft turnaround time

## After



**12** hour shifts x **4** days **zero** idle time



4 days work & **3** days off

an extra day off boosts productivity

Faster turnaround



## Solution for Steve

-a day in the life of a maintenance planner



## How does it work?

# Ramco line planning and optimization\*

 **23**  
locations

 Servicing **63** airlines  
Across **56** models

 **150** maintenance  
resources

**Productive**  
Shift planning 

+

**Efficient**  
Parts Logistics 

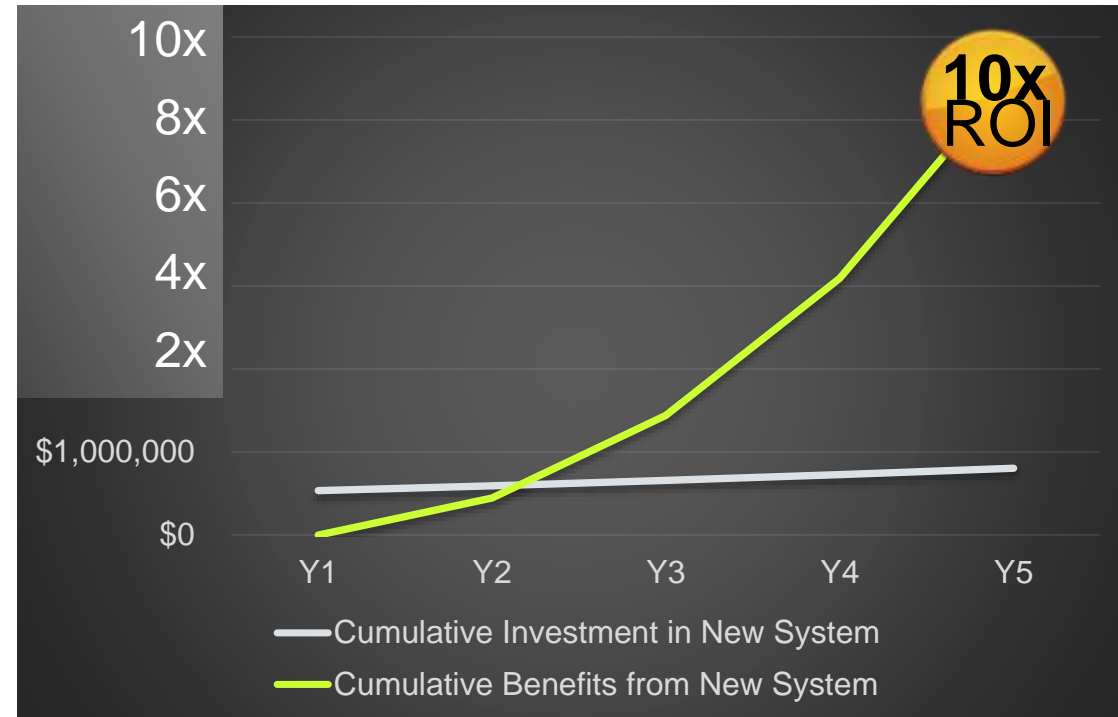
+

**Faster** Aircraft  
Turnaround  
time 

+

**Lower**  
Inventory  
carrying cost 

=



\* Powered by Ramco's In-Memory Planning and Optimization

Presenting N-GAPS

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why order when its covered  
Warranty Tracker



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why order when its covered  
Warranty Tracker





why order when its covered  
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ramco

# Automate & Seamlessly Manage Warranty. period.



**Multiple**  
Aircraft, Parts,  
Purchases, Repairs on a  
**Single** Warranty  
Agreement



**Track**  
Based on parameters  
and Calendar



**Auto Evaluate**  
warranty agreements  
from component removal  
.  
.  
.  
.  
to routing to external  
repair agency



**Auto create**  
Purchase orders  
**SB/AD**  
Warranty Management  
for Modifications (SB/AD)



1 of top 5 Heli operators in  
the world - a decade old  
customer of Ramco

“ \$1.5 M  
increase in Revenue  
Per Aircraft Per Year -  
directly attributed to  
Ramco ”

“ 99.99%  
Inventory Accuracy  
since 2010 ”

# Agenda

## N-GAPS

Key technology innovations

About Ramco

# Agenda

N-GAPS

**Key technology innovations**

About Ramco

## The evolution of technology & Applications

# The Application Reality



year  
**2009**

## System of Records

- Data Capture
- Reporting
- Querying



year  
**2012**

## Embedded Analytics

- Analytics
- Fused Visualization
- Graphical Reporting



year  
**2015++**

## Cognitive solutions

- Straight Thru Processing
- Context Aware Solutions
- Ramco **Assist**



# The Technology Reality



year  
**2007**

**Client  
Server**

- Powerful Clients
- Client Installs
- History

year  
**2009**

**Thick client  
solutions**

- Wrapped Solutions
- Heavy footprint
- Web Architected

year  
**2015++**

**Adaptive  
solutions**

- Responsive
- HTML5 is the Standard
- Mobility is the driver

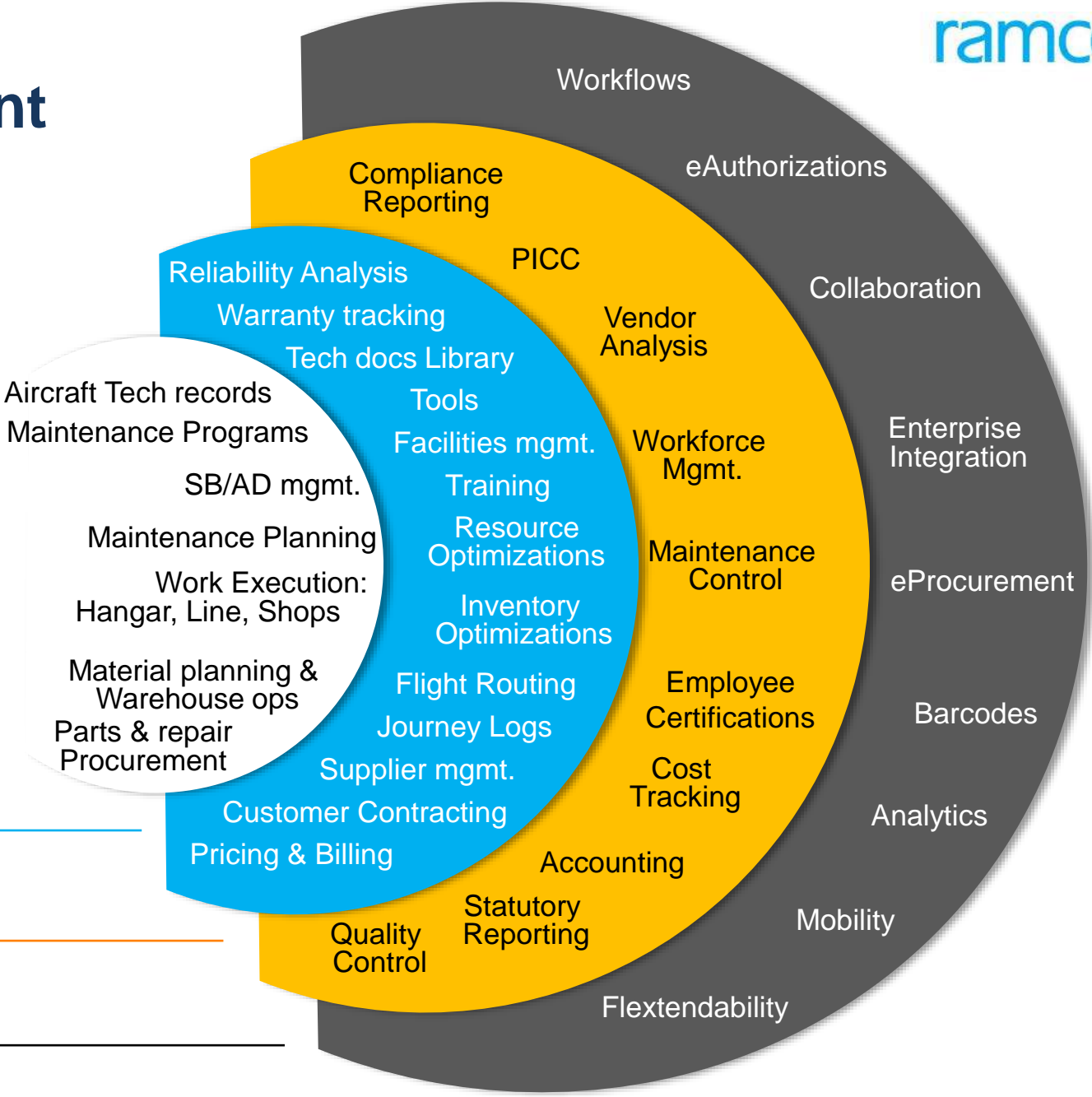
Deriving the formula to  
**create** innovation in aviation

# Innovation across the a → z of aircraft maintenance foot print

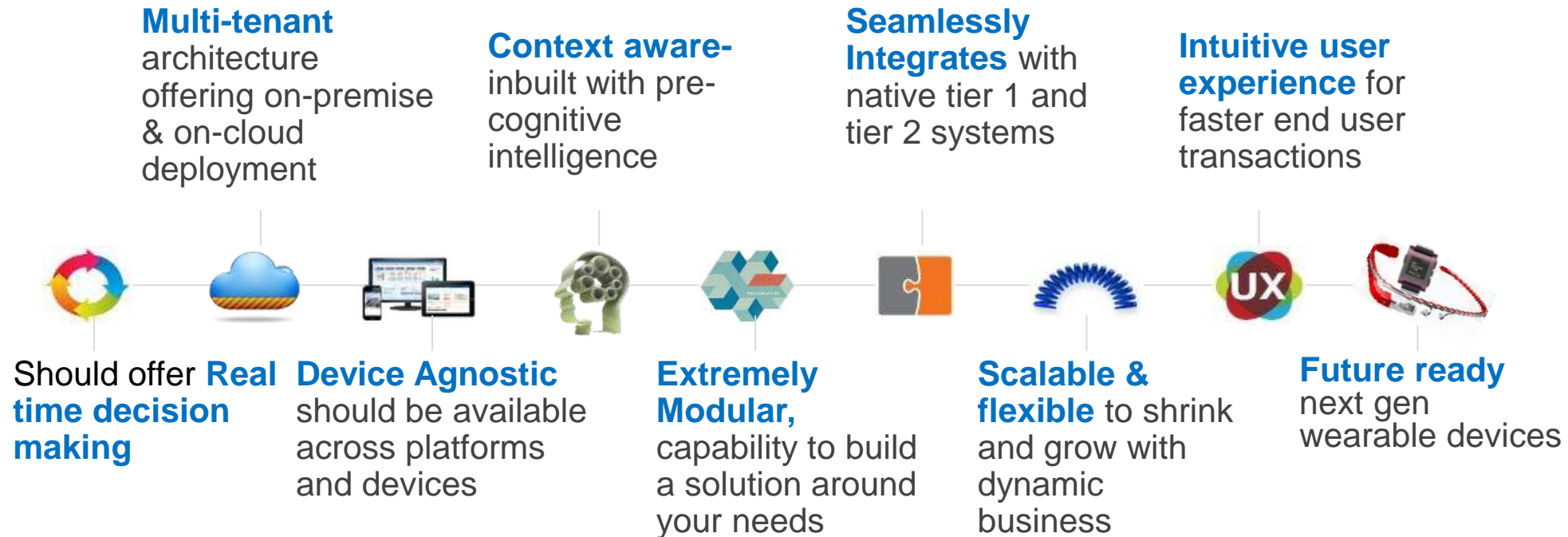
- to manage next-gen connected aircraft



- Core ●
- Enablers ●
- Monitoring & Control ●
- Enterprise Integration & Efficiencies ●



# Innovation across the a → z of what the future needs



# The innovation formula for aviation maintenance



Aviation Functionality



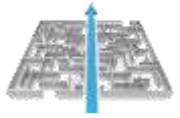
Ethos



**IOT**


= pure innovation


Future

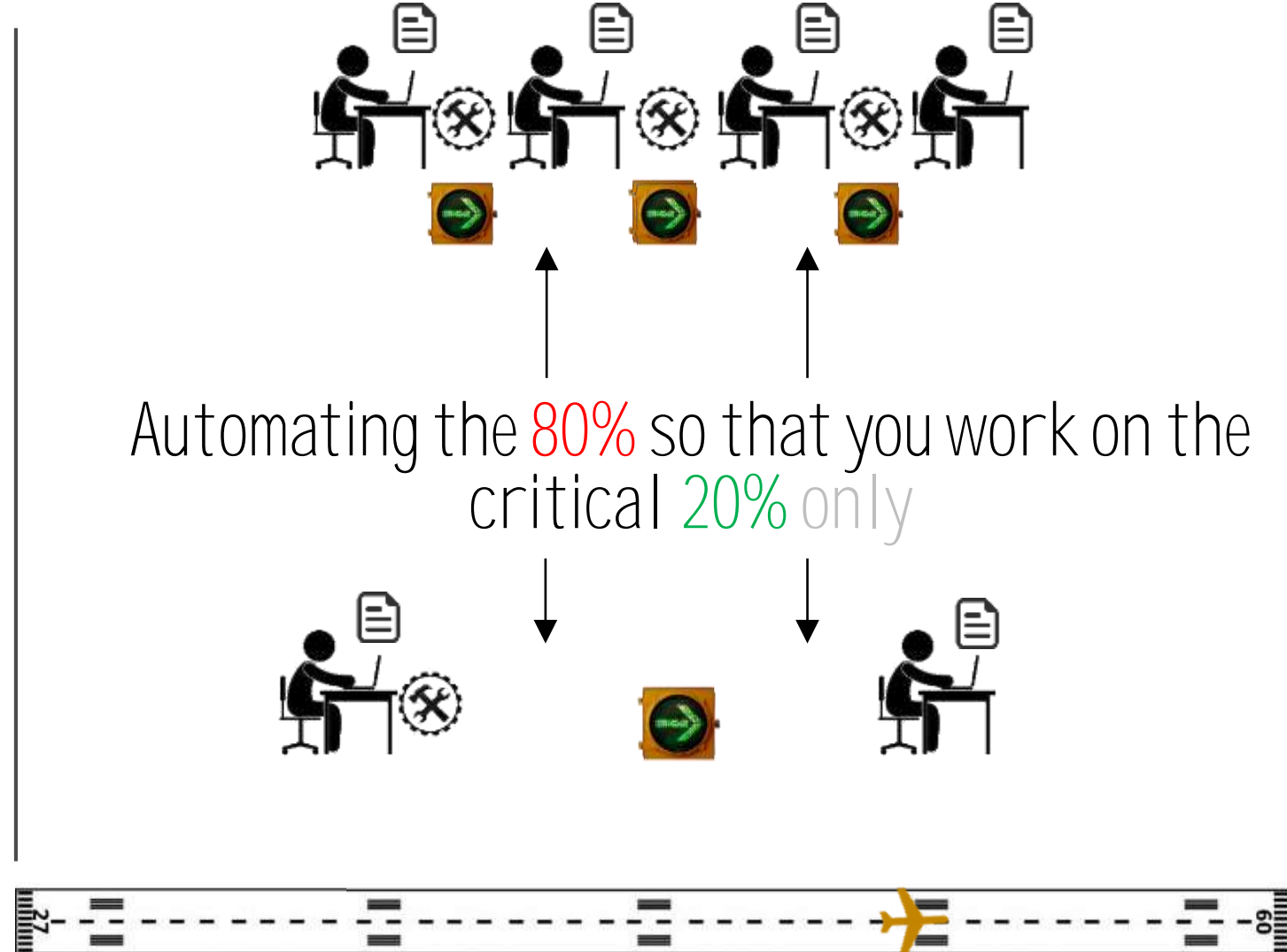


# Automated intelligence Straight Through Processing

Propelling Aviation M&E  
MRO with  
Straight Through  
Processing

documentation 

maintenance 



# Unserviceable parts reception | Landing Gear

## Without Straight Through Processing

4 4 11



Receive Landing Gear



Part stands by at store  
Customer Order created  
By Commercial Rep.



1 2

Work Order created  
By Shop lead



1 1 2



Main Core/Part  
requested by Shop

1 1

Part released & routed  
store > shop



1 1



Shop receives part &  
Initiates repair

1 1 1

## With Straight Through Processing

1 4 2  
Auto-generated



1 1 1

Receive Landing Gear



3

Using inteli contracts  
embedded STP  
engine initiates  
entire process



1 1

Shop receives part &  
Initiates repair

## Benefits

**75%**  
Resource  
optimization

**70%**  
process  
leaning

**>50%**  
Process TAT  
reduction



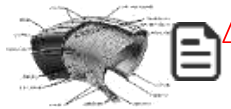
Previous step  
Shop receives part &  
Initiates repair

Next step ➤

# Parts Disposition

use case: Landing gear

ramco



Remove unserviceable tyres to be repaired & maintained as customer inventory

Remove unserviceable break-assembly to be exchanged with MRO

Remove spindles for special hardening (no internal capability with MRO)

Remove a sub-assembly which is directed by the customer to return 'As is'

Remove a sub-assembly, which is in a phase out condition and can be scrapped locally by MRO

Without

Straight Through Processing

Manual intervention of 26 steps by 3 resources



3 8 26

With

Straight Through Processing

Embedded disposition code & STP engine automates entire process in 6 easy steps



3 8 6

From 26 steps to 6 steps



**Mobility – anywhere, anytime**



**Now Manage MRO anytime, anywhere**

**Download our App**   

**Offered as a Hybrid Solution**

**Use Industry Standard HTML5 rendering**

at the touch of his glass,  
maintenance Engineer  
checks parts availability in store

- based on their
- 📍 Store Location,
  - 📦 Stock availability &
  - 🔧 Project in hand

<b>Fan duct</b> Store 11-A Dallas, TX	<b>2 days</b> delivery	<b>Alternator</b> Store 2-C Phoenix, AZ	<b>3 hrs</b> delivery	<b>A.P.U</b> Store 1-A Hradec, CZK	<b>7 days</b> delivery
745 Miles away	3 units in store	50 Miles away	1 unit in store	5235 Miles away	3 units in store



**Mark** is at the hangar waiting for his assigned aircraft' arrival.

5:18 PM  
**Journey Log**  
Log Start & Stop  
**Clear Defects**  
Attend to Defects  
**Time Sheet**  
Book your Time

5:20 PM  
**32-020-01-01**  
9M-LMS/HVY000011  
**21-050-00-01**  
9M-LMS/HVY000011  
**27-136-02-01**  
9M-LMD/HVY000085

5:20 PM  
**Start**  
Select to start  
**Stop**  
Select to stop  
**Sign-off**  
Select to sign-off



On the arrival of 9M-LMS, Mark checks the tasks to be performed along with Package # for 9M-LMS on his Fly Smart and heads out to the gate.

Mark, an aircraft engineer is searching for a crucial part to complete the aircraft's landing gear overhaul

## Option 1:

Mark goes back to hangar & sifts through multiple catalogues to find the part no

## Option 2: Smart Search

Mark types 'landing gear' on his mobile device app

- **Recognizes its Mark**
- **Identifies his designation & seniority**
- **The work order he is working on**
- **Analyzes all other inputs from the screen he is currently on**
- **Identifies the aircraft he is working on**
- **And showcases the accurate part availability on store**





Seeing the  
big picture by  
**cutting  
through  
clutter**

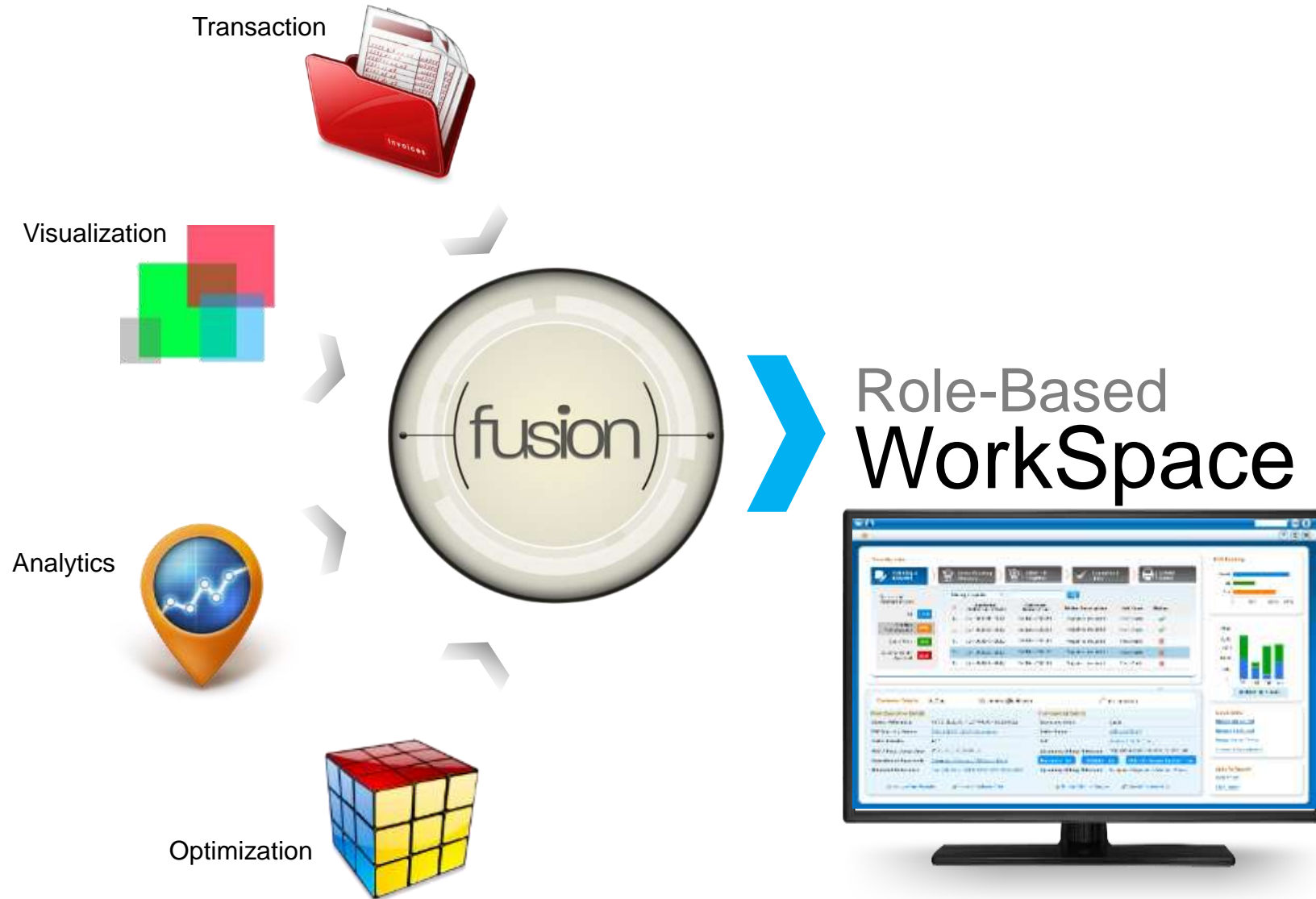


Does your Mechanic **spend more time** updating the M&E/MRO software than fixing the Aircraft?

Why should a user

- go through multiple screens to perform a single transaction
- Access multiple modules to complete a report
- Search the system to identify high priority tasks for the day

# WorkSpace | One screen does it all

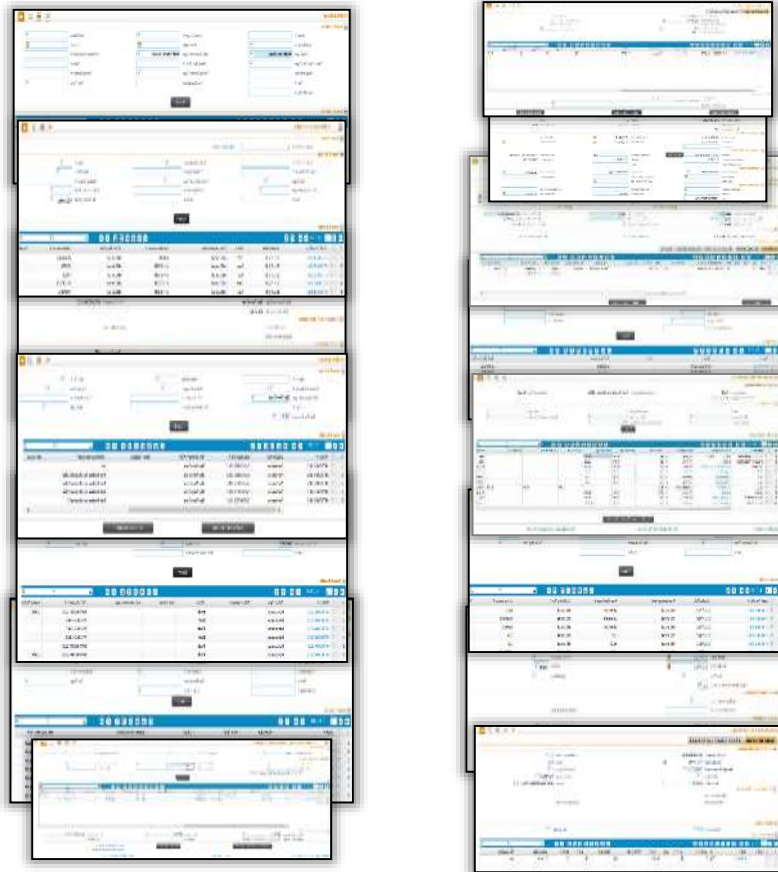


# Role-based WorkSpace in action

Goods receiving process | inventory workflow

## Standard

16 screens & 16 mins



## New Gen

1 screens & 6 mins



Seeing the big picture by cutting through clutter

# Smarter Ways to induct a Customer Task Card

## Problems

faced when an MRO inducts a Customer's Task Card

- Arduous # of Manual steps
- # of tasks can be in hundreds
- Task to be created one by one
- Manual decisions on addition/ revisions
- Delays in inducting a package

## Conventional Customer Task Card Induction



6

- Step 1** Manually check the Task master
- Step 2** Add new Tasks
- Step 3** Revise existing Tasks
- Step 4** Activate Tasks
- Step 5** Upload Tasks into Customer order
- Step 6** Process CO into a package

## With Ramco's Task Upload Function



1

**ONLY ONE Step** Upload New Tasks

Using **Ramco's Task Card** feature automates



5

- Addition of new Tasks
- Revision of existing Tasks
- Activation of Tasks
- Uploading Tasks into CO
- Task movement into package

Customer Task Card inducted successfully



# Barcoding based on Work Actions

**Jack** is at the hangar surfing through his assigned tasks



Please scan the action to be performed

By zapping Barcodes, Jack can:

- Record his task time
- Review his tasks
- Request Parts Placement
- Record Material Request
- Complete Tasks



# Presenting Ramco Gesture Computing

Wouldn't it be cool if you just move your hands from a distance, & your systems understands you!

ramco



Open your hands to start using..



Swipe right to move to the next document



Swipe down to move down the list



Thumbs up to approve



A V sign to successfully close a document



Swipe left to move to previous document



swipe up to move up the list



Thumbs down to reject



A Closed hand to close and exit the experience

# Agenda

N-GAPS

**Key technology innovations**

About Ramco

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# Aircraft Platform Independent

The largest Civil Operators of 7 Aircraft OEMs use Ramco



**Era**  
HELICOPTERS LLC



**Air Methods**



**AIR EVAC  
LIFETEAM**



**PFI**



**COLUMBIA  
HELICOPTERS**



Largest operator of **Bombardier** trusts **Ramco**

Largest operator of **Agusta Westland** trusts **Ramco**



Largest operator of **Embraer** trusts **Ramco**

Largest operator of **Airbus Helicopters** trusts **Ramco**



Largest operator of **Bell Helicopters** trusts **Ramco**

Largest operator of **Sikorsky** trusts **Ramco**

Largest operator & Type Certificate Holder of **Chinooks & Vertols** (Civil version) trusts **Ramco**

# Company Overview

ramco



Part of the \$1 Billion Ramco group



Global R&D Center in India



21 Offices Worldwide



1700+ Employees



Rich history of 24 Years

# The Global Aviation Customer Presence

over  
**75**  
customers



Trusted by the likes of



**COBHAM**



**Patria**



across  
**29**  
countries



**29** Americas



**6**  
MEA



**13**  
Europe



**30**  
APAC &  
Oceania



serving  
across  
segments



**23** Fixed  
Wing



**23** Rotor  
Wing



**18** MROs



**7** Charters



**7** Defense &  
Others



# Integrated Aviation ERP with N-GAPS

Next-Gen Aviation Problem Solvers



Inventory forecasting

Ramco ePublications

787 Loadable Software Airplane Parts Management

Ramco SmartTail  
Tail Planning & optimization

Advanced Reliability

Ramco Maintenance Optimization & Shift Planning

Hangar planning

Offline Field Maintenance System

Electronic Flight Bag

Advanced Analytics

HR & Financials



# Customer Speak



“ The net effect of Ramco is a dramatic improvement in engineering efficiency, optimized fleet management, and reduction in aircraft on-ground time

With a mobile-ready completely integrated system from Ramco, we will be better equipped



“ Moving from Windows to Web has been a wonderful upgrade

With Ramco, we have moved to a sophisticated end-to-end software for automation of our Maintenance and Engineering functions to streamline the various aspects of our business



# Aviation M&E MRO Suite

On Cloud/On Premise

# Complete solution offering for

Part 121, 145, 135, 21, CAMO, FTM, ITM

Engineering & CAMO	Maintenance	Supply Chain Mgmt.		Safety, Compliance & Quality	Flight Operations	MRO Sales	Manufacturing	Human Capital Mgmt.	Finance & Accounting
Configuration Mgmt.	Line Maint.	Parts Admin.	Supplier Mgmt.	Compliance Reporting	Flight Sheet Mgmt.	Customer Mgmt.	Product Data Mgmt.	Employee Information	Finance Setup
Maintenance Program Admin	Hangar Maint.	Warehouse Mgmt.	General Procurement	Std. Reliability Analysis	Flight Charter Contracting	Quote & Pricing Mgmt.	Production Scheduling	Certifications & Qualifications	General Accounting
Technical Records	Shop Maint.	Material Planning	Repair & Exchange	Safety /Occurrence Mgmt.	Journey Log Entry Mgmt.	Contract Mgmt.	Manufacturing Execution	Training	Supplier Invoicing
SB / AD Admin.	Engine Maint.	Stock Mgmt.	Loan / Borrow	Quality Audit Mgmt.		Customer Order Mgmt.	Engineering Change	Time & attendance	Accounts Payable
Maintenance Planning	Tool & GSE Mgmt.	Physical Inv & Cycle Counting	Consignment & PBH	Part Certification & Hazmat		Part Exchange		Recruitment	MRO Invoicing
Task Card Mgmt.	Offline Maint.	Inventory Analysis	Warranty tracking & Claims Mgmt.	Adv. Reliability Analysis		Part Sale Mgmt.		Talent Mgmt.	Accounts Receivable
Library Mgmt.	Dent & Buckle	Scrap Mgmt.	Goods Receiving			Customer Portal		Global Payroll	Mgmt. Accounting
e-Publications	Time Tracking	Shipping						Employee Portal	Fixed Assets
LSAP	E- Signature								Flight Contract Invoicing

Enterprise Add-ons

Mobility		In-memory Planning & Optimization (iPO)		Ecosystem		Hubs		Platforms	
Warehouse Anywhere	Customer Anywhere	Line Mx Optimization	Tail Assignment	Aerexchange	FedEx/UPS Integration	Tech Record Hub	Procurement Hub	Report Writer	Integration Gateway (iRIS)
Route Anywhere	Approval Anywhere	Component Mx Optimization	Hangar Planning Optimization	Ramco Xchange	OEM Data Interface	Customer Order Hub	Inventory Hub	Advanced Visualizer	DecisionWorks
Mechanic Anywhere	Fly Anywhere(EFB)					Engineering Hub	Accounts Payable Hub	iPO	ZERO UI
								Workflow	Extension Development Kit

# Key Customers Worldwide

And more...

 <p><b>Era</b><sup>★</sup> HELICOPTERS LLC</p>	 <p><b>PHi</b></p>	 <p><b>AIR EVAC LIFETEAM</b></p>	 <p>هليكوبترات خليج <b>GULF HELICOPTERS</b></p>
 <p><b>Air Methods</b></p>	 <p><b>SFS</b></p>	 <p><b>COLUMBIA HELICOPTERS</b></p>	 <p><b>Sundance</b> HELICOPTERS</p>
 <p><b>Hevilift</b> Group</p>	 <p><b>orange</b></p>	 <p><b>VNH VNH SOUTH</b></p>	 <p><b>EagleMed</b></p>
 <p><b>MED-TRANS</b> AIR MEDICAL TRANSPORT</p>	 <p><b>Patria</b></p>	 <p><b>INGENIERIA SEMASA</b></p>	

# Aviation Suite | Key Highlights



One integrated platform to run entire organization



Multiple aviation segments



Infinite possibilities



A full suite M&E/MRO solution integrated with Financials, HCM, Analytics, and Advanced Reporting



Web-architected, truly multi-tenant and “Cloud ready” solution with option to **deploy On-premise or on Cloud**



Can be operated from **desktop, laptop, tablet and smartphones**



**Paperless operations** through e-Signature, e-Procurement (SPEC 2K) and e-Publications



**Extremely Modular**, enabling roll out of **Business Components** as and when needed



**Seamlessly Integrates** with external systems



Scalable, n-tier, model based architecture designed for **high Performance and Reliability**



Enriching user experience through **Uber-Cool WorkSpace** and **Enterprise Search capabilities**



Offline Field Maintenance to **track Remote aircraft maintenance operations** in locations without internet connectivity

3 OF TOP 20 AIRLINES  
5 OF TOP 10 HELI OPERATORS  
& some of the largest mros

tRUST **ramco** aviation  
M&E MRO Software for Civil & Defense

