

## **The Digital Transformation of Service**

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#### Thermo Fisher Scientific



Our mission to enable our customers to make the world healthier, cleaner and safer

#### Unique scale and depth of capabilities



|--|

- Clinical Diagnostics
- · Immunodiagnostics
- Microbiology
- Transplant Diagnostics
- · Healthcare Supplies Channel

#### Life Sciences

- Mass Spectrometry
- Electron Microscopy
- Molecular & Cellular Biology
- Genetic Sciences
- Clinical & Next-Generation Sequencing

#### **Applied Markets**

- Chemical Analysis
- Chromatography
- Electron Microscopy
- Next-Generation Sequencing

#### Pharma and Biotech

- Bioproduction
- API
- Formulation
- Clinical Trials
- Manufacturing
- Global Logistics, Labeling

Laboratory Equipment, Chemicals and Scientific Supplies Channel

Enterprise-Wide Services and Digital Science Solutions



## Unsurpassed and evolving portfolio mix



Immunodiagnostics



Clinical Diagnostics

Microbiology



Transplant Diagnostics



Clinical Oncology



Reproductive Health



Genetic

Mass Spectrometry



Human Identification



Cell Analysis Cell Culture



Electron

Chemical Analysis



Chromatography



Lab Equipment

Laboratory

Chemicals



Lab Consumables

Scientific Supplies



Bioproduction



API



Formulation



Manufacturing



Clinical Trials

Healthcare Life Sciences **Applied Markets** 

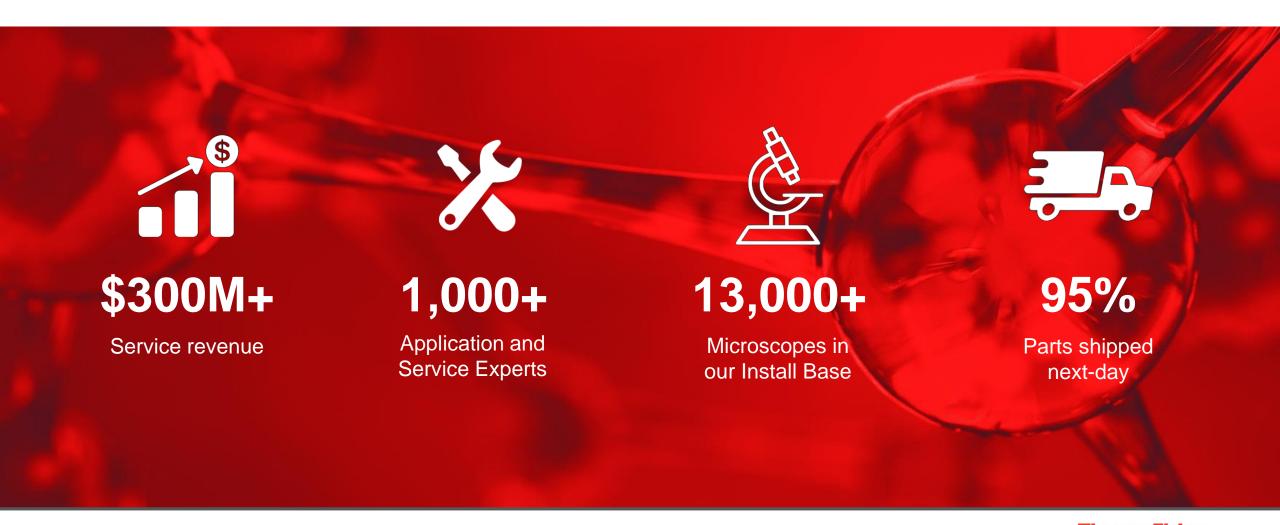
Lab Equipment, Chemicals and Scientific **Supplies Channel** 

Pharma and Biotech

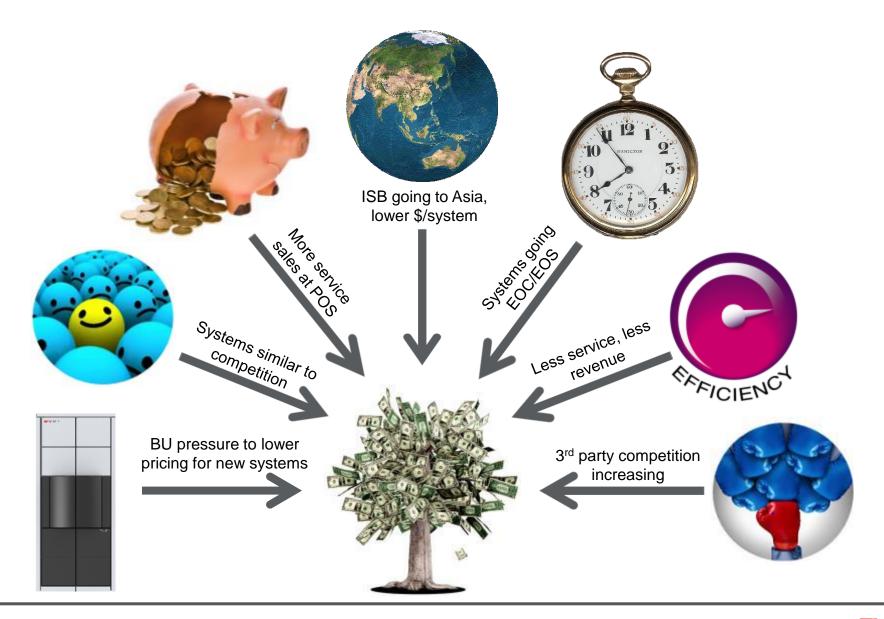
Enterprise-Wide Services and Digital Science Solutions



## Electron Microscopy Service



#### Pressure On Traditional Service Revenue



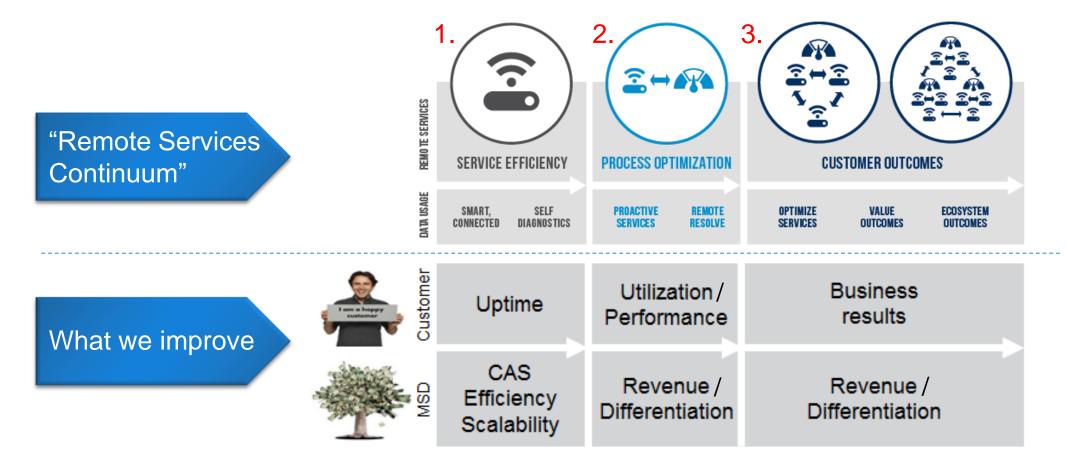
# Vision:

**Service** is a key reason for customers to select Thermo Fisher Scientific

Mission: Enable customer success by creating and delivering solutions that leverage digital science to drive customer allegiance and financial results

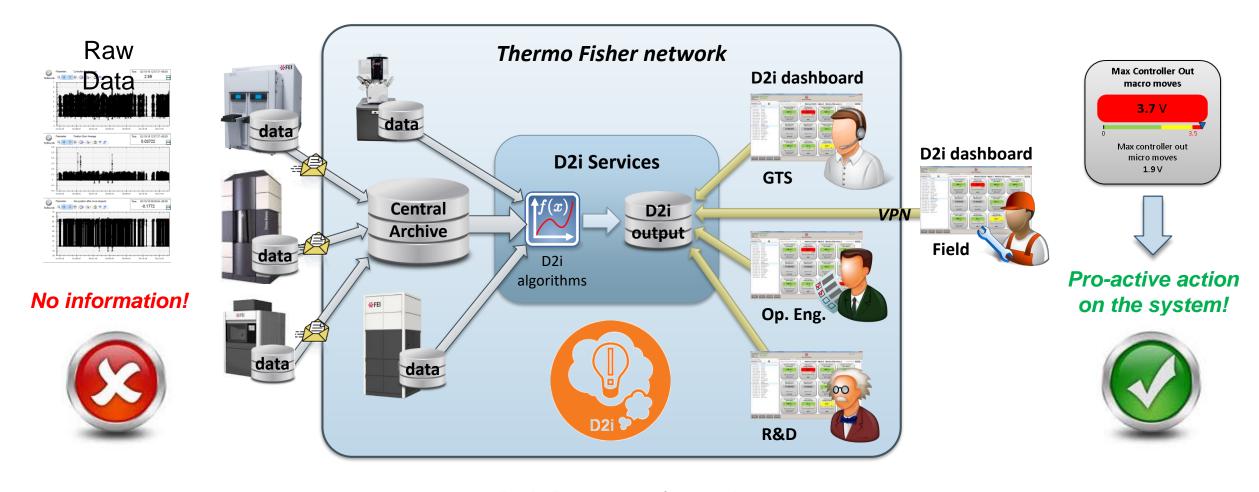
#### Digital Services strategy





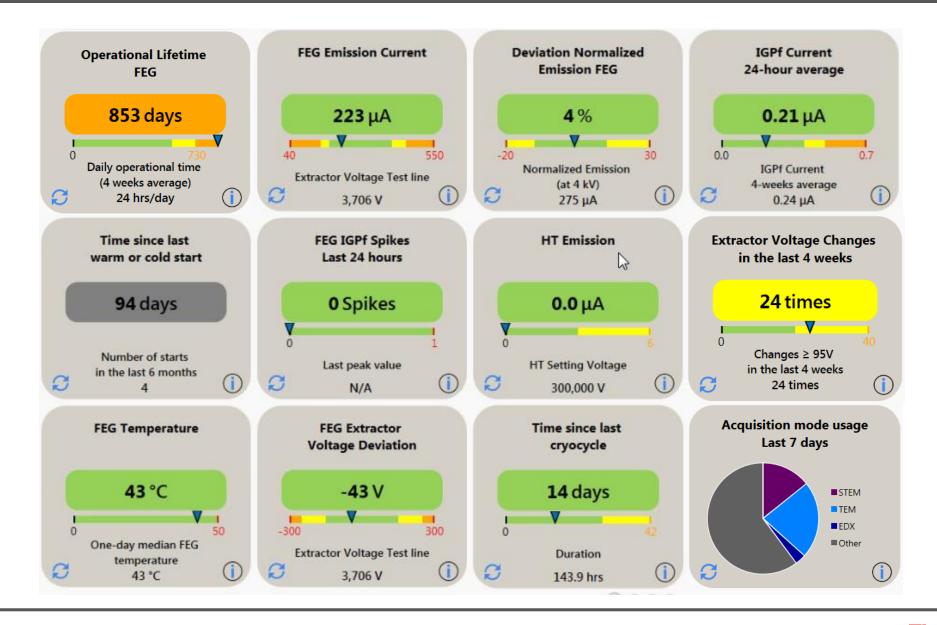
- Answer customer's higher expectations: first uptime then value add-services (optimization > outcome)
- Focus on selling additional value (increasing revenue), productivity will increase with more penetration

## D2i technology as key enabler

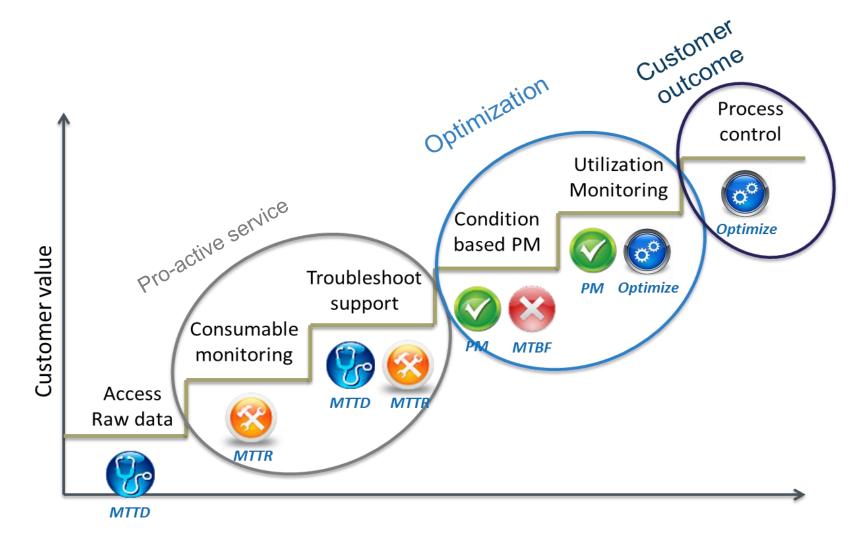


D2i: Data to Information

#### D2i Dashboard - Sample



#### D2i parameters development roadmap



Moving from parameters around 'Pro-active service' to 'Optimization'

#### D2i success story

Who: Semiconductor customer

**Where: The Americas** 

What: Helios 1200/Max controller out AT-axis

D2i parameter triggered

Why: Damaged ceramics caused increasing AT-

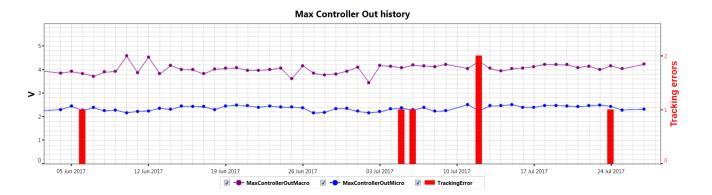
axis controller out voltage/tracking errors

#### How:

• D2i parameter "Max controller out macro moves AT-axis" turned orange, triggering GTS and local team to inspect

- Checklist was executed and local team determined ceramics and motor were damaged.
- Ceramics and tilt motors were ordered and replacement was scheduled with customer.





#### **Results:**

- AT-axis motor and ceramics ordered and replacement action scheduled before customer reported any issues
- D2i insights prevented 1- to 2 days of unscheduled downtime by scheduling diagnosis and replacement action proactively.

#### D2i success story

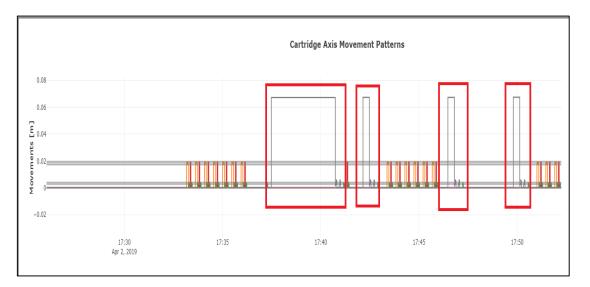
**Who: Cryo-TEM Customer** 

Where: Field

#### How:

- Several autoloader algorithms signaled an unusual motion profile
- Because all known pattern movements had been mapped, D2i alert was generated
- In-depth analysis showed several occasions where the cartridge axis moved abnormally
- This indicated an unusual event prevented the axis from its programmed movement, so a site visit was scheduled proactively to assess and fix, as needed

What: Autoloader axes moved unexpectedly, despite pre-programming patterns
Why: Loose autoloader cassette assembly

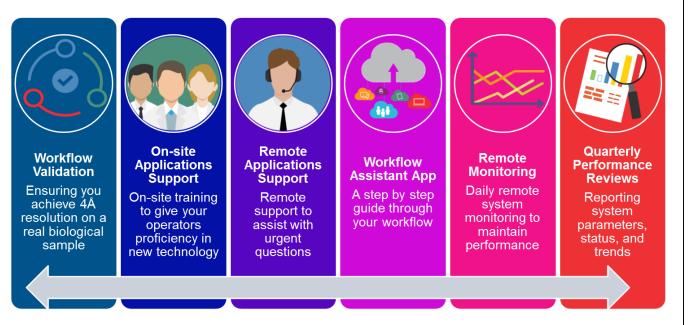


#### **Results:**

- Thanks to a D2i notification, a field service engineer was dispatched and discovered a loose cassette screw, which
  obstructed the movement of the cartridge gripper arm
- The engineer corrected the issue before it interfered with the customer's use of the system
- If left undetected and unresolved, this issue could have resulted in an error that led to the loss of up to 11 samples
- Proactive notification via D2i preserved samples and protected uptime

#### Bundled into value propositions of our Digital Services

"Accelerate" bundle offering for Life science



Value prop: accelerate onboarding of life science customers using SPA workflow

"Accelerate" bundle offering for Semiconductor

Digital Service	Uptime Guarantee	After-Hours Service	Applications Support
Dzi			
<b>∨</b>	~	~	×
	Continue to sell as a sales Item		

Value prop: guaranty uptime without the need of dedicated onsite service crew

Critical to overcome geographical scaling challenge in China!

#### A wide range of customers are adopting our digital services

















































COLUMBIA UNIVERSITY

IN THE CITY OF NEW YORK



Technology















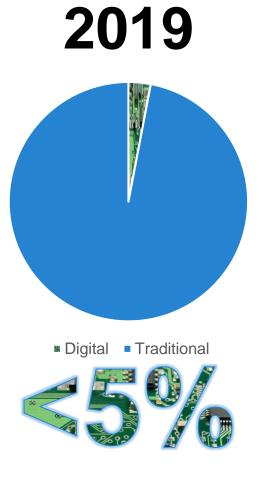


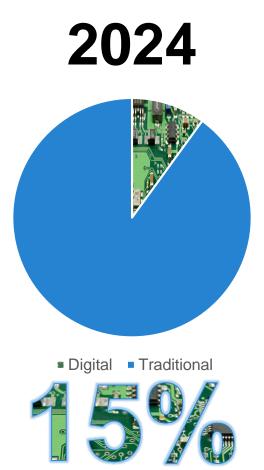


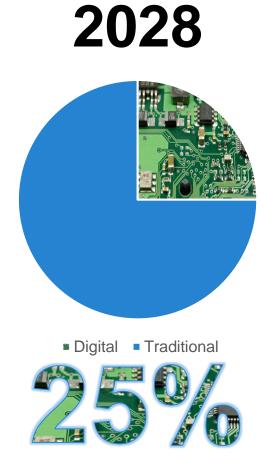


Perelman School of Medicine

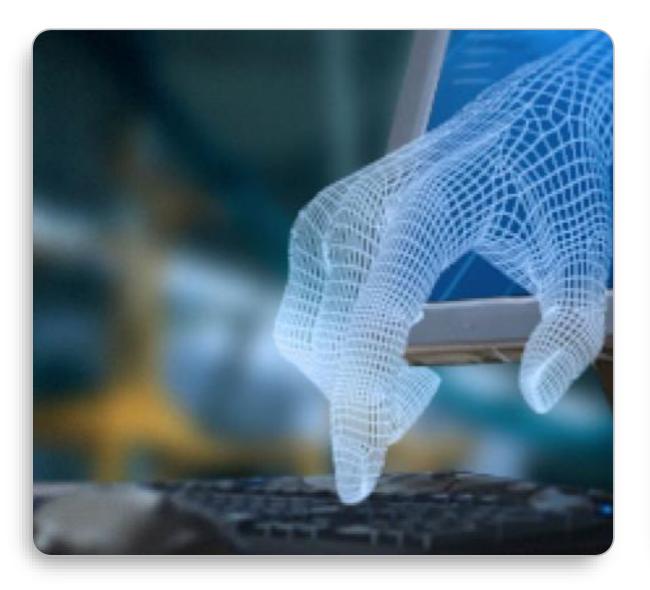
## Revenue growth of the Digital Services







## Next steps: Remote Service delivery and Machine Learning (decision support)







## This is disruptive innovation

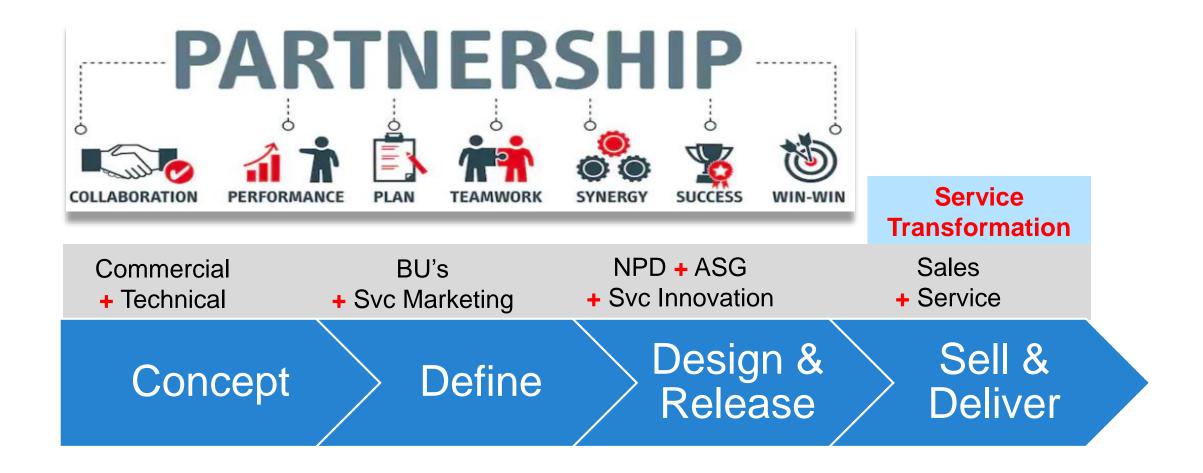


Manage as Internal Startup and focus on niche market

## Create and Protect the Digital Value

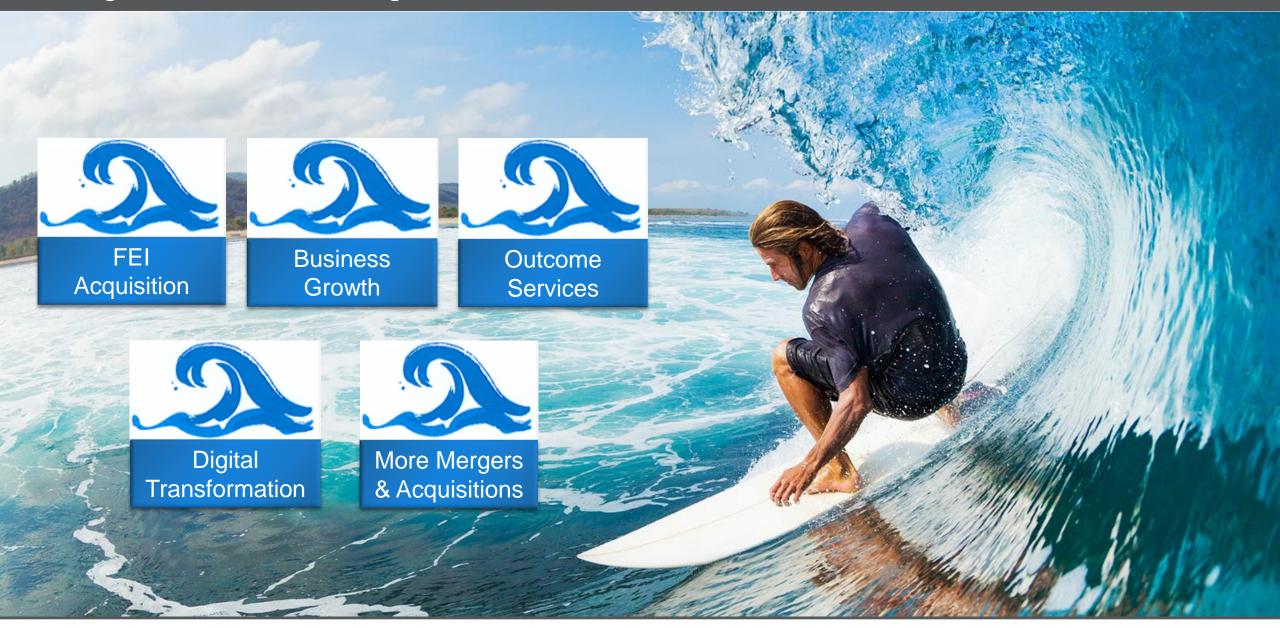


### Digital Value must be managed End-2-End

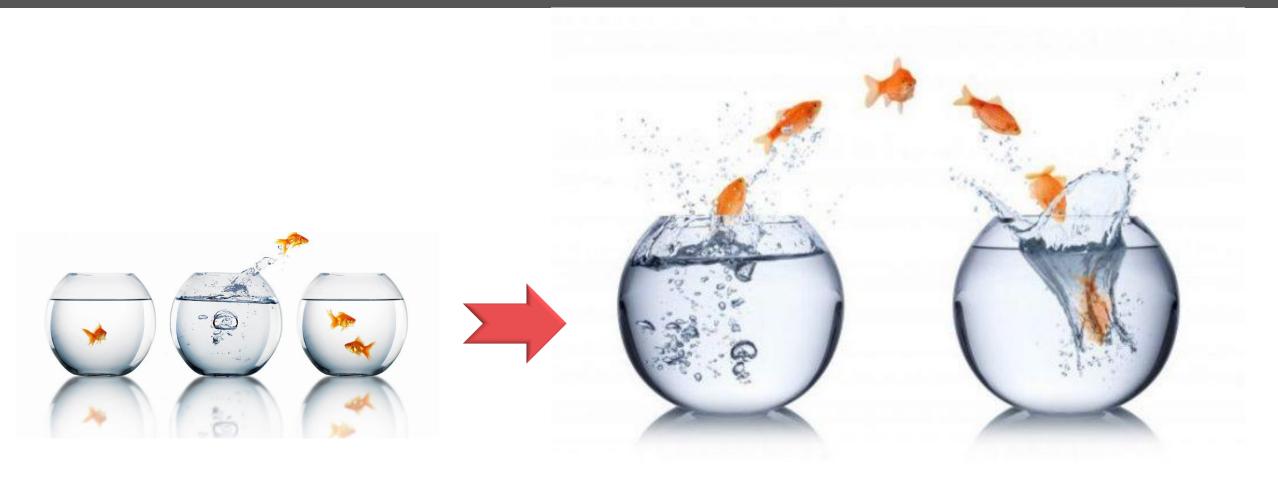


Break the silo's, create partnership across functions and transform Service delivery

#### Riding the waves of change as Thermo Fisher Scientific EM Service



## We need a strong Culture of Change



Change Management has become a key enabler to our business

#### Take away

#### Our goal:

Ride the Digital Wave and Transform Service to ...

- Enable Customer Success by creating and delivering Integrated Solutions
- And maximize Customer Lifetime Value

#### **Lessons learned:**

- Manage as Internal Startup and focus on niche market
- Bring Commercial and Technical people together
- Bundling capabilities into real value propositions is key to transition from free to fee
- Think End to End
- Execution of the services is a big challenge and generally underestimated
- Change Management required across the entire business

