

PI World 2019

Air Liquide - Alizent

"An example of industrial digital transformation"

World leader in gases, technology and services for...

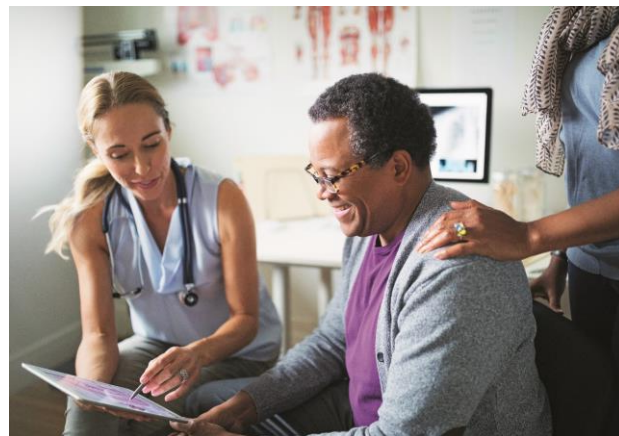
INDUSTRY

- A wide range of industrial processes for our customers: energy, metals, food, chemicals, automotive, pharmaceuticals, etc.



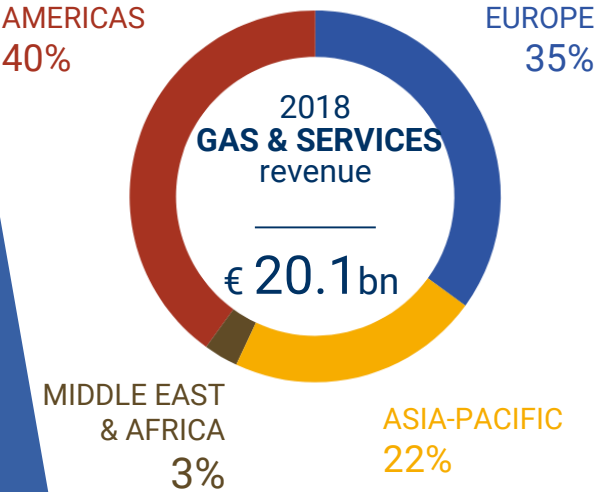
HEALTH

- Patients at home
- Hospitals
- Hygiene and specialty ingredients

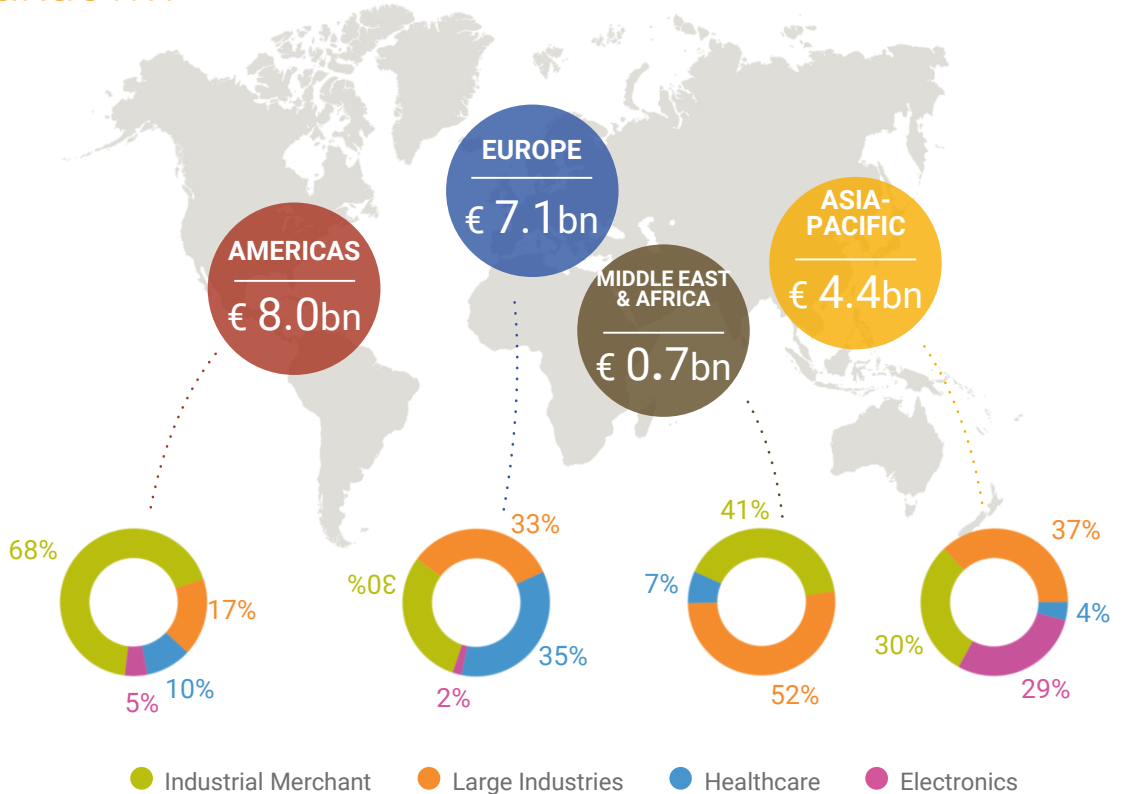


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ASSET INTERACTIVE

Gas & Services Revenue breakdown



2018 Figures



Alizent Mission Statement



As part of **IDD / Digital Direction**, deliver **Air Liquide Digital Transformation for asset management** and production & logistics optimization

3rd Party Selected Industries | Oil & Gas, Energy, Metals, Food & Bev...

Optimize our **knowledge and experience with Air Liquide** and **create synergies** with non-competing **3rd party industries facing similar challenges** by accompanying them in their Digital Transformation.

Big enough to operate **global** challenges,
small enough to deal with **local** realities



5 Engineering centers

10 Offices



300+
employees



15
nationalities



www.alizent.com

Over
1 BILLION DATA
per day

300+ PLANTS
SERVED

18,000+ USERS
AROUND THE WORLD

41 COUNTRIES
covered

Energy industry

AXIUM
INFRASTRUCTURE



Oil & Gas industry



Airgas

Air Liquide
creative oxygen

Food & Beverage industry

Mondelez
International



Carlsberg



Metallurgy industry



Aluminium
for the world



MA'ADEN
South Arabian Mining Company

Rio Tinto
Fer et Titane

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Air Liquide Digital Transformation

Assets

The way we manage our industrial assets and extract value from them



Customers

The way we interact with our customers and patients



Ecosystem

The way we work together in a networked ecosystem



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Alizent within Air Liquide

Assets

The way we manage our industrial assets and extract value from them

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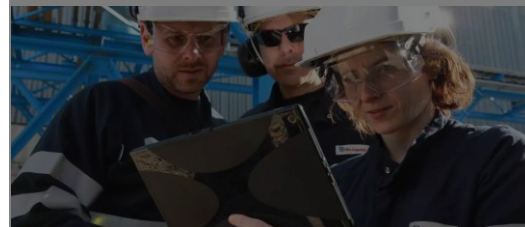
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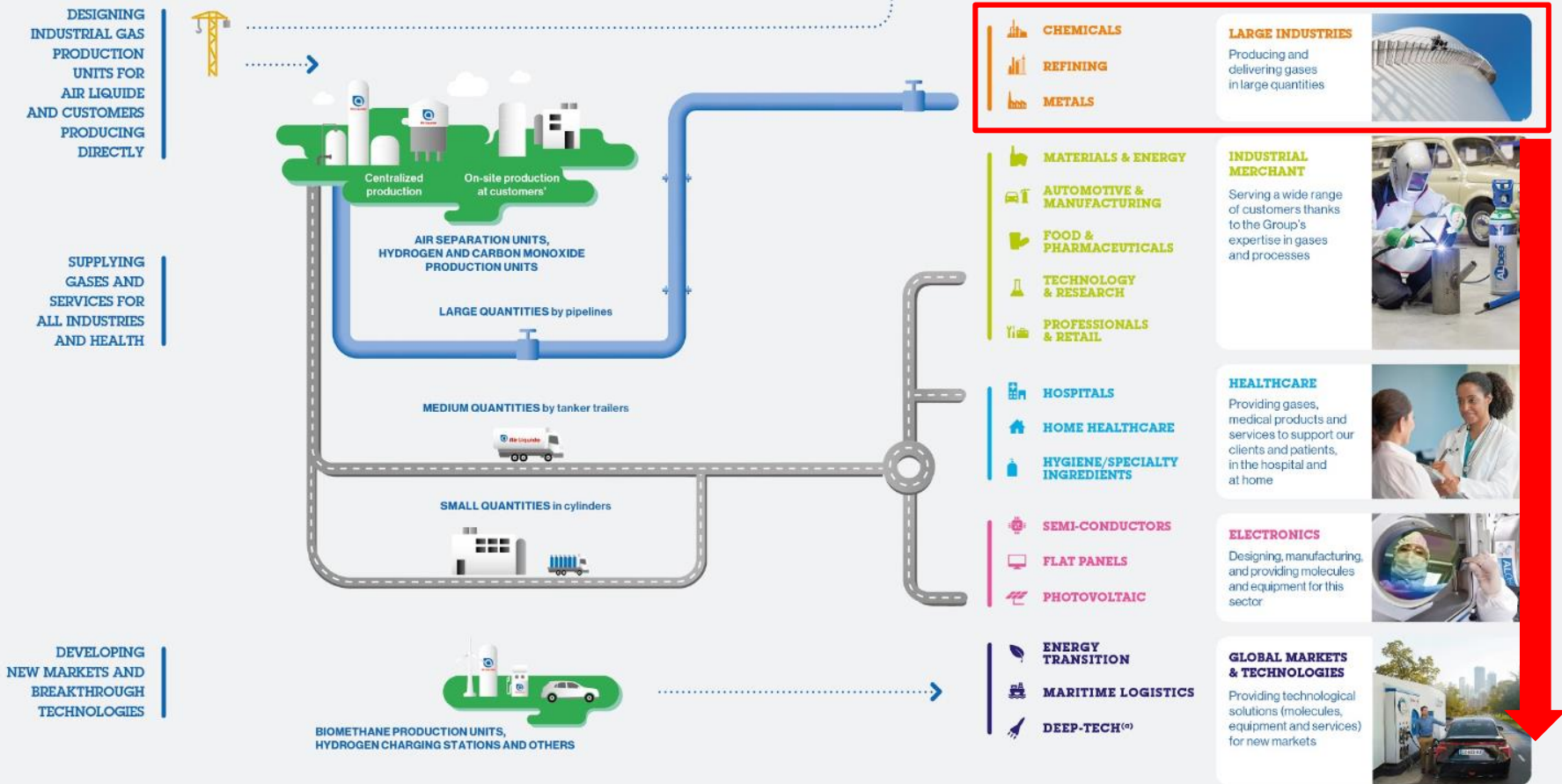
RESTRICTED DIFFUSION

| September 16th, 2019

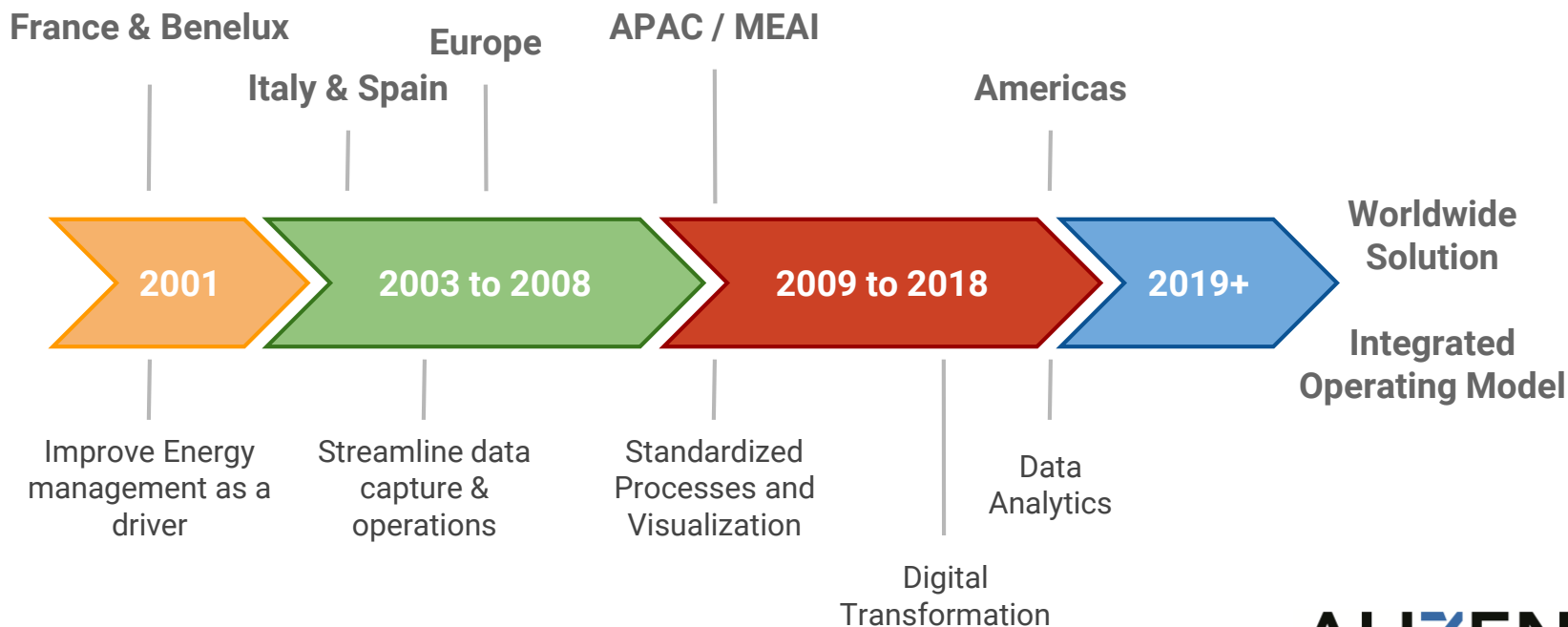
| OSIsoft PI World - Summit Enterprise - Gothenburg

PRODUCTION OPERATIONS

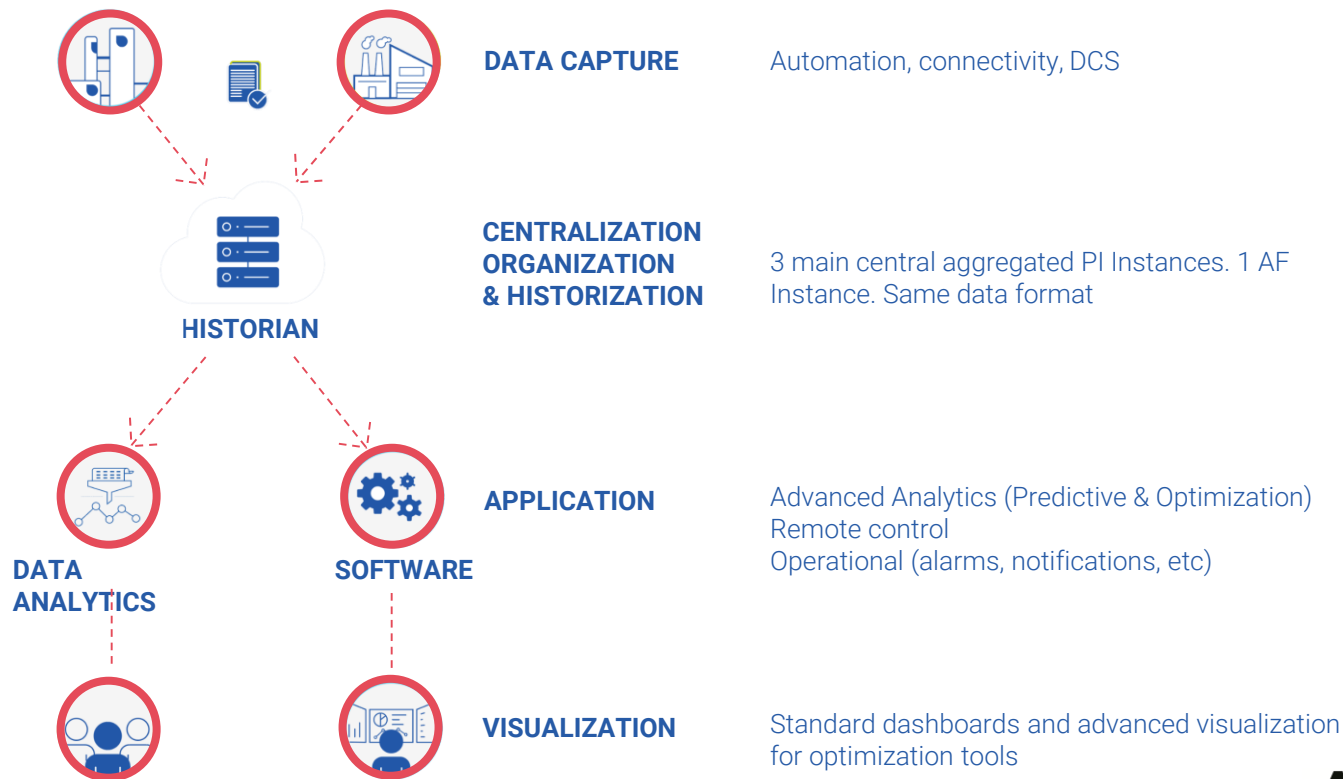
Air Liquide Activities



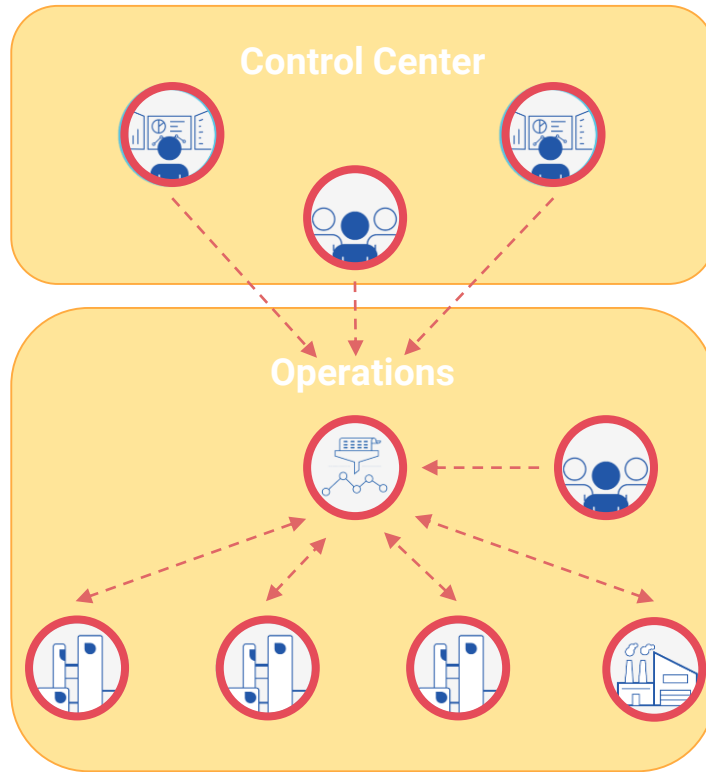
Brief history of PI within Air Liquide



The solution today



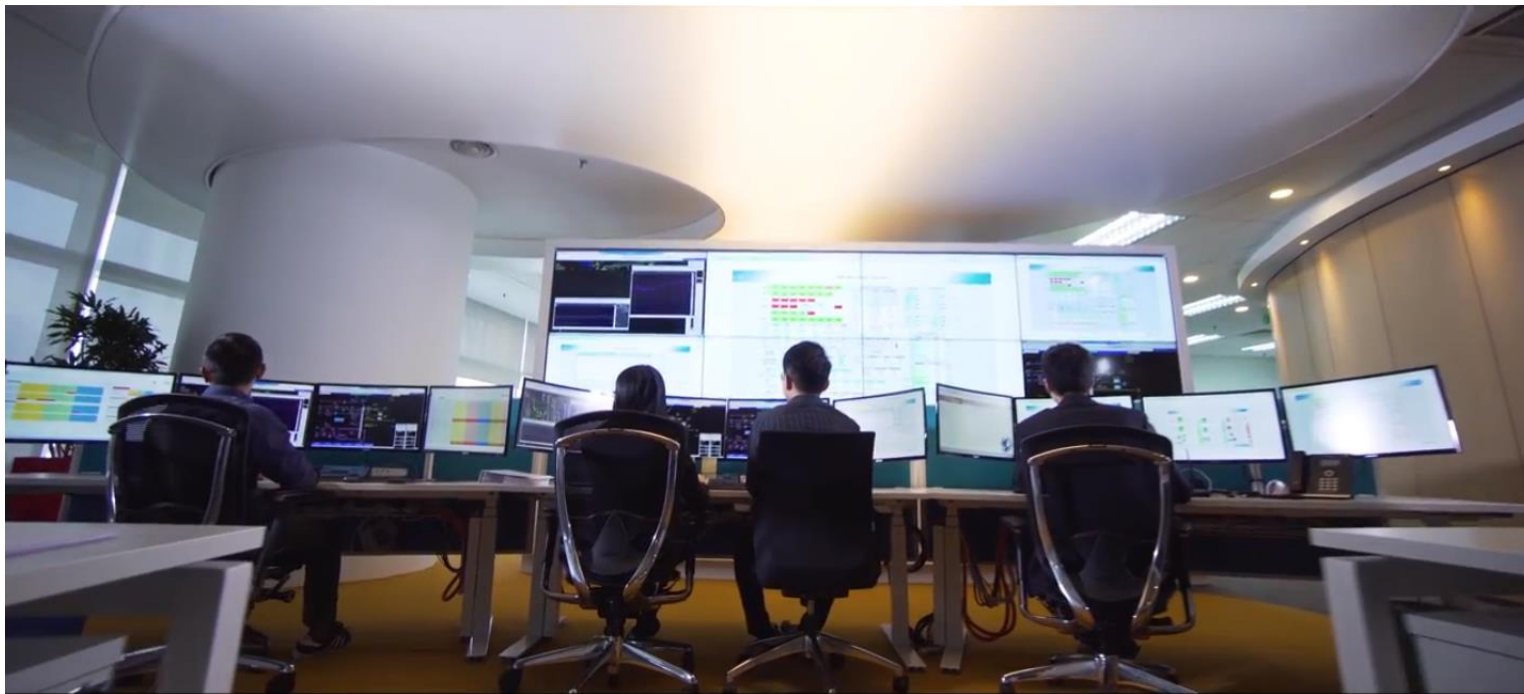
Impact of the digital Transformation



A “Control Tower” notion is introduced where analysts can be leveraged globally. Analysts are layered into a monitor (short term), predict and optimize (medium term) and analyze (long term optimization)

Operations leverage a common language and vocabulary, making the visualization tools an integral part of their work and becoming much more data driven

Control Tower



Control Center in Kuala Lumpur, Malaysia

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Lessons learned



The true transformation is that of the organization



Digital is more about people than technology



Capacity to plan



Capacity to act