

Pilotfabrik Industrie 4.0 @ Seestadt Aspern

Jordan Janeczko

Scientific Community

Atos Centers of Excellence

2017.04.12



Innovation and Digital Cameras: In Defense of



- ▶ 3.6Kg
- ▶ 0.01 Megapixel



- ▶ Black and White
- ▶ No one had a computer in 1976

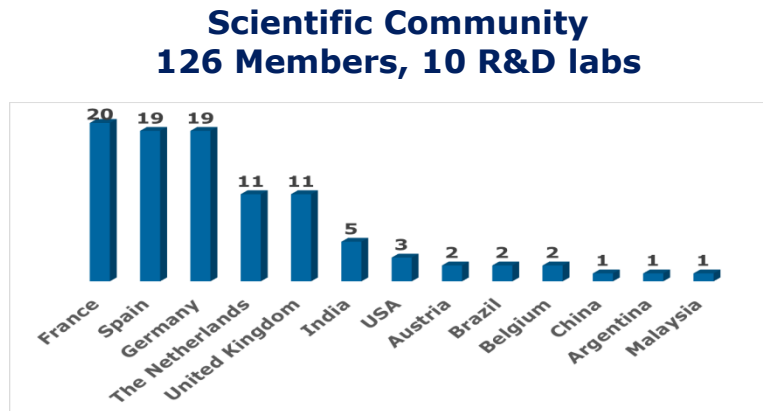
Innovation@Atos – The Scientific Community



Clients
(Siemens, Shell, IOC ...)



Business Partners
(Samsung, EMC, ...)



Public Innovation
(European cloud partnership, Digital Single Market)



Startups
(bluekiwi, Typesafe ...)



Universities
(UPMC chair, IT Challenge ...)

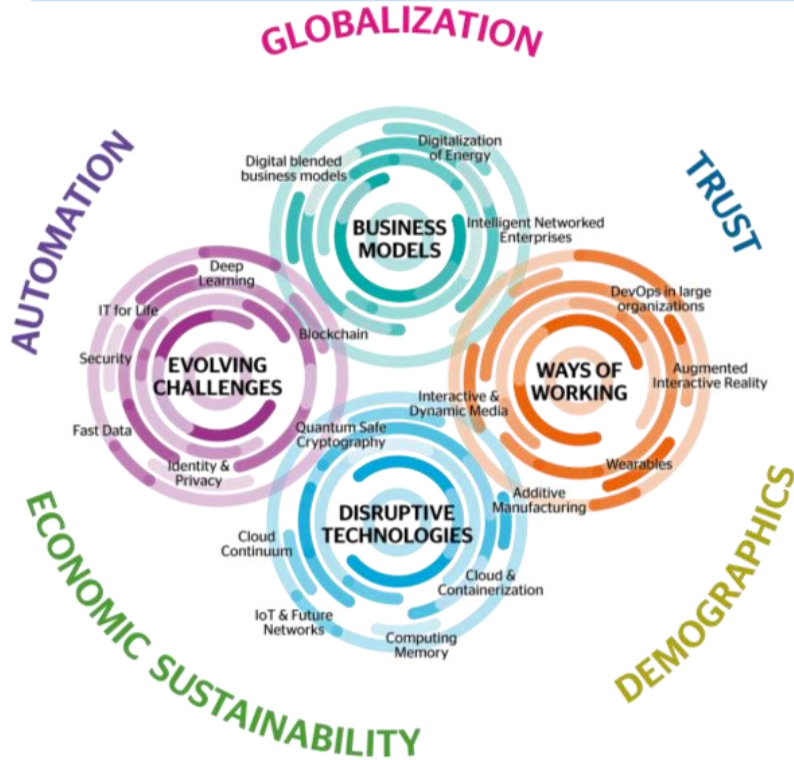


Analysts (Gartner, Forrester, Ovum ...)

2009



The Atos Vision: Digital Shockwaves



Business Models – through new sources of business value and partnership, driven by data and connectivity.

Ways of Working – resulting from changes in business processes and the very nature of work.

Disruptive Technologies – the developments that bring revolutionary changes to the “art of the possible” not just evolution.

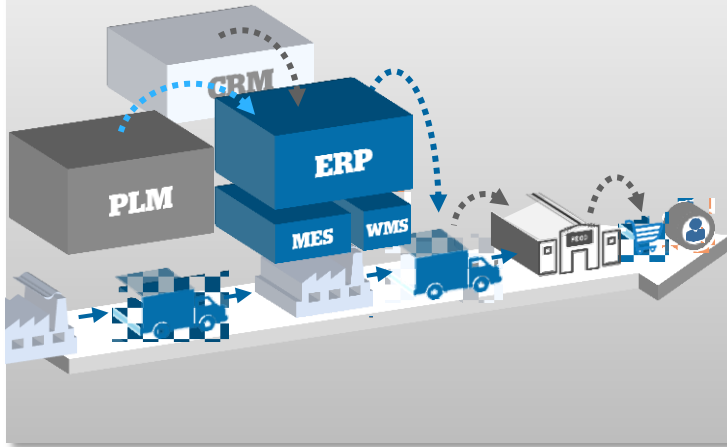
Evolving Challenges – familiar challenges that need to be addressed with different perspectives as a result of the emergence of new influences.

The Manufacturing World is changing

From single, siloed organizations to networks of capabilities

Now (if you are slow)

Linear – optimized only
within siloes



CHANGE DRIVERS

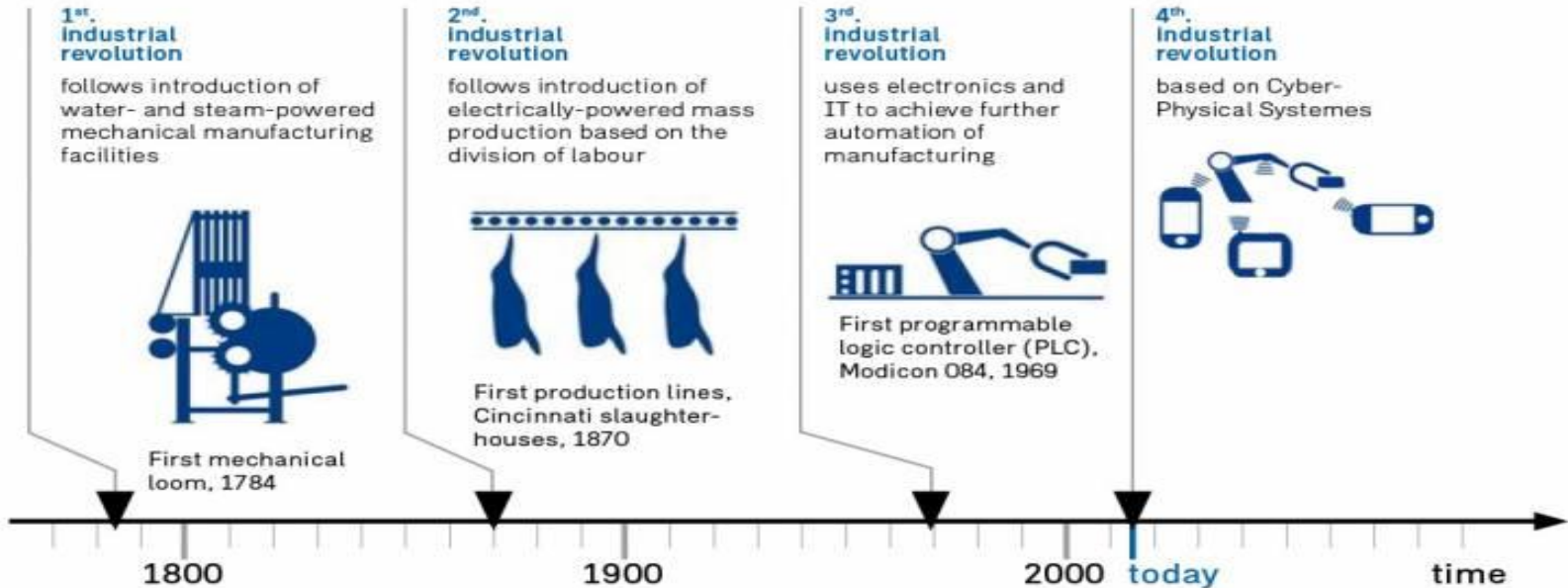
- Always connected
- Internet of everything
- New “digital” competitors
- Age of the customer
- Cost pressure
- Highly individualized product
- Lot size 1
- Shorter time to market
- Re-industrialization of Europe

Now (if you are fast)

Collaborative and agile
network of capabilities



The 4th Industrial Revolution is a Digital Revolution



Customer Experience & Digital Marketing
What do customers want from our business?
How should we serve them in the digital age?

Digital Business Models
Where are we or our competitors creating value?
How should our business model and processes change in the digital age?

Digital Organisation
How do we enable our staff to work effectively in the digital age?
How does the board enact leadership for digital transformation?

Digital Technology Strategy
How can digital technologies support new business models?
What solutions and capabilities do we need?

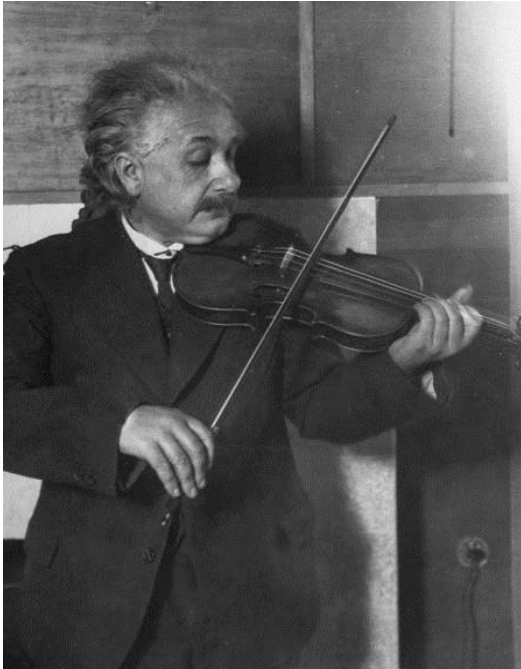
Analytics
How do we harvest digital information assets to discover insights that drive faster and better business value?

Governance, Risk & Compliance
How can we keep our business and our customers safe and secure and in the ultra-connected digital world?

The First Digital Revolution ?

Physics and Quantum Mechanics

Max Planck's Physics Professor advised him to choose Piano



„in dieser Wissenschaft schon fast alles erforscht sei, und es gelte, nur noch einige unbedeutende Lücken zu schließen“

Physikprofessor [Philipp von Jolly](#), 1874

Awareness versus Readiness

Tomorrow's Enterprise starts today

- 93% of Execs believe that digital technologies will disrupt their business over the next 12 months
- 74% of business executives say their company has a “digital” strategy
- 33% think it's the **right “digital” strategy**
- 15% feel they **have the skills and capabilities to execute** the strategy



Source: Forrester / Russell Reynolds 2014 Digital Business Survey

Voice of our customers

“Every time I attend an Industry 4.0 event, I return with more questions than answers.”

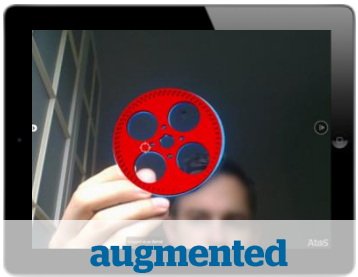
“We need something to see and touch – show me real examples!”

Strategic Investment: Industrie 4.0 Pilot Factory in Vienna

Atos is the exclusive System-Integration-Partner of the TU Wien



-  **Research facility**
-  **No commercial competition**
-  **Cooperation with industry**
-  **Interdisciplinary research**
-  **Training and development**



Pilot Factory: Industry Partners



EVOLARIS



SIEMENS



COPADATA
do it your way

MEMEX
Measuring Manufacturing Excellence

teXXmo
your ticket to mobility



zetes
ALWAYS A GOOD ID



igm
Robotersysteme AG



Rexroth
Bosch Group



FESTO

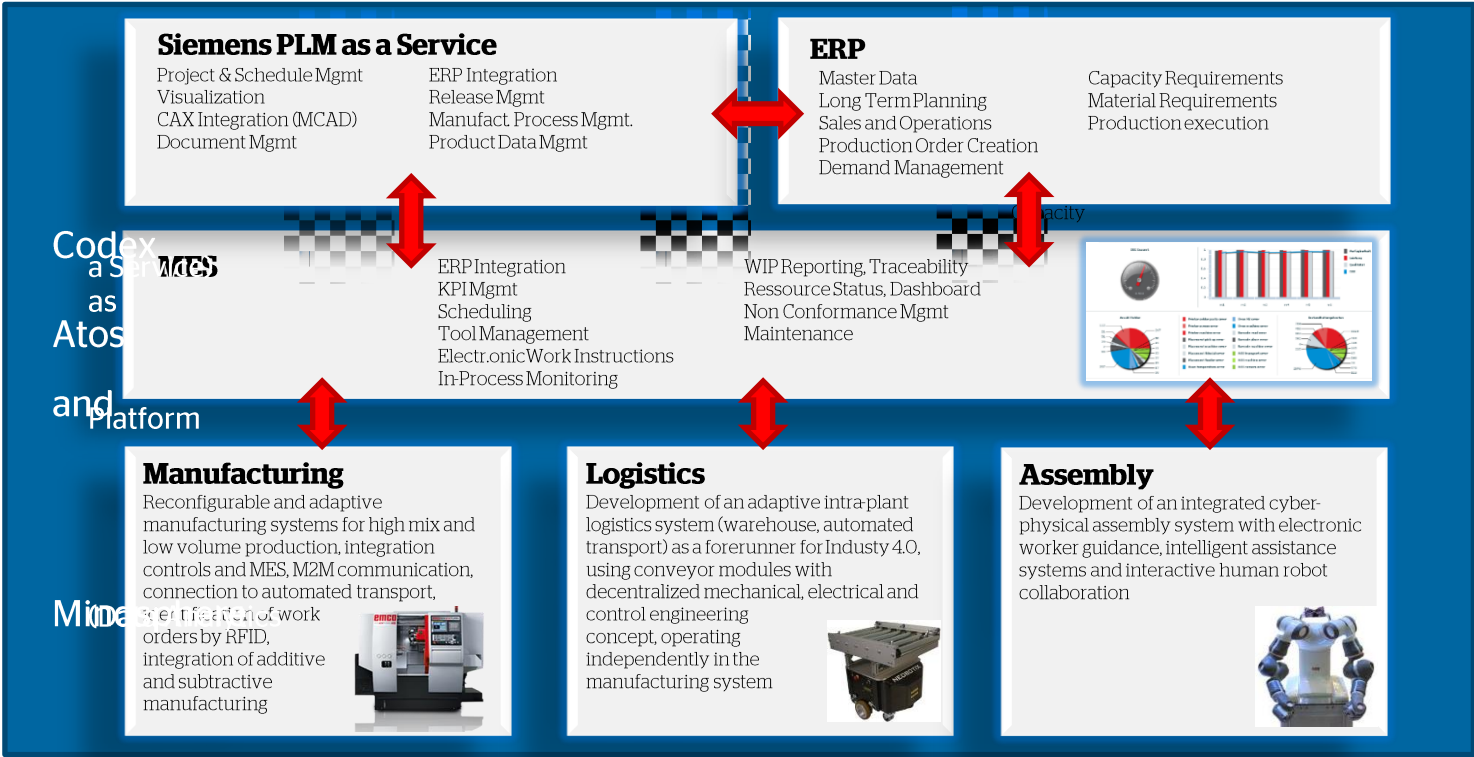
Kellner & Kunz AG
RECA | HÄLT. WIRKT. BEWEGT.



JUNGHEINRICH



Atos is implementing and integrating the IT of the Pilot Factory



Mobile Production Monitoring



AtoS

Your business technologists. Powering progress

Atos is THE European IT Leader

and in the top 5 of worldwide Digital services players

€ 12bn
in 2016



72
countries

100,000
Business
technologists



Atos

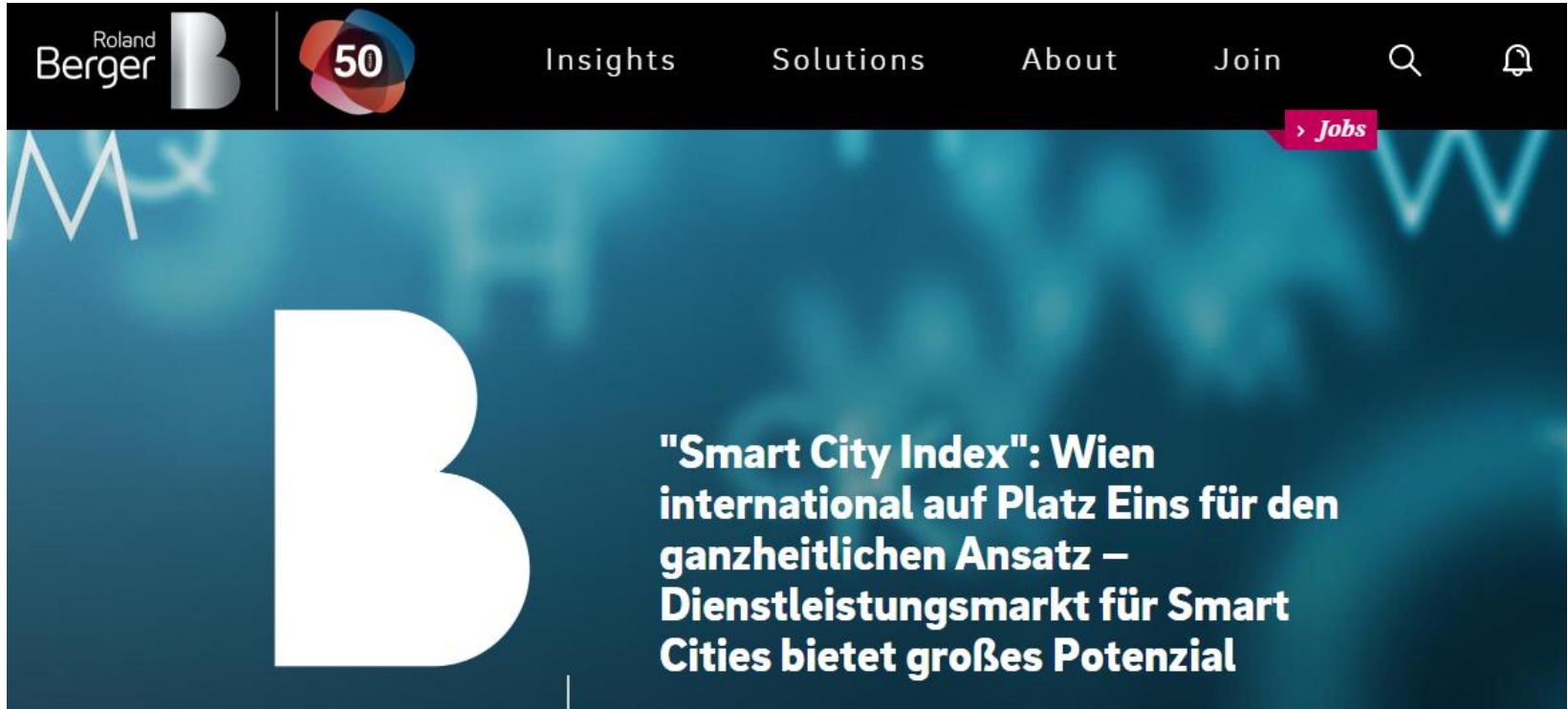
worldline
e-payment services

Bull
atos technologies

UNIFY

Smart City Vienna - Platz #1

Analyst Firma Roland Berger - March 2017



The image shows a screenshot of the Roland Berger website. The header is dark with the Roland Berger logo on the left, a '50' anniversary graphic, and navigation links for 'Insights', 'Solutions', 'About', and 'Join'. There are also search and notification icons. A pink 'Jobs' button is visible on the right. The main content area has a blue background with a large white 'B' and a headline in German: '"Smart City Index": Wien international auf Platz Eins für den ganzheitlichen Ansatz – Dienstleistungsmarkt für Smart Cities bietet großes Potenzial'.

Roland Berger

50

Insights Solutions About Join

> Jobs

B

"Smart City Index": Wien international auf Platz Eins für den ganzheitlichen Ansatz – Dienstleistungsmarkt für Smart Cities bietet großes Potenzial

The Center of Excellence for Industry 4.0 builds and extends Atos' participation in the Pilot Factory

Industry 4.0 Atos European Competence Center

Support of Atos Scientific Community

Atos Innovation Center	Siemens global partnership
Atos Industrie 4.0 Consulting	Atos I4.0 Rapid SW Development Lab
I4.0 IT Reference Implementation	Industry 4.0 Showcases with Partners

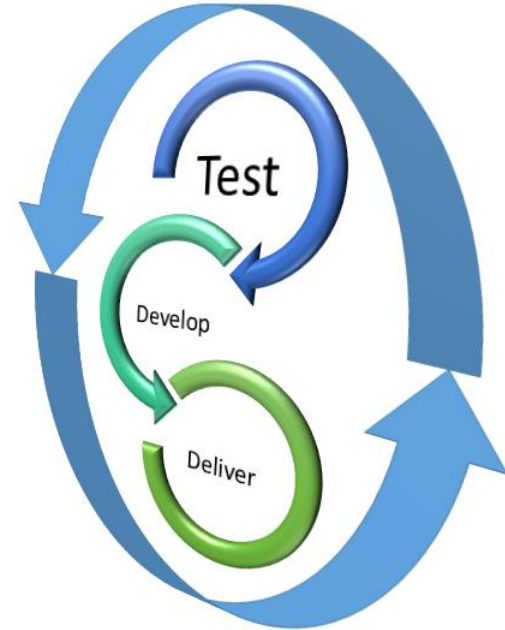
Pilot Factory for Industry 4.0

Industry 4.0 Consulting

- Innovation Workshops
- Atos Consulting Method for Industry 4.0
- Business Reinvention

Rapid SW Development Lab

- Pair Programming
- Test Driven
- Continuous Integration



For your quick start Atos created a catalogue with 60+ business related use cases.

Atos Digital Transformation Use Case Catalogue



> 60 Use Cases

 Connected Worker	 Mobile Workorder	 Mobile Plant Monitoring
Connected Machine 	Advanced Analytics 	Vertical Integration 
 Predictive Maintenance	 Additive Manufacturing	 Augmented Service Technician
Value added Services 	Product as a Service 	"X" as a service, Data as a service 
 Manufacturing Intelligence	 Manufacturing Analytics	 Security
Enterprise Social network 	Supplier Collaboration 	

We are your partner from idea creation through rapid prototyping, implementation, rollout and operation...

> 60 Use Cases



3

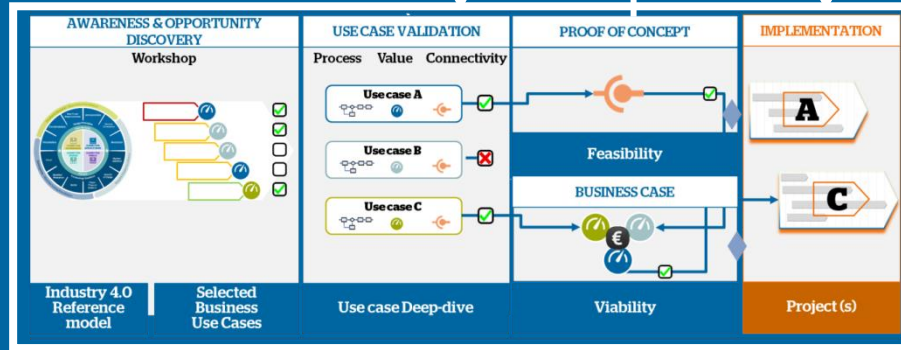
Pilot Factory



Center of Excellence
Industrie 4.0



1



2

3

We recommend

Be quick,
don't wait for rules and standards
but start and realize projects,
co-operate,
learn while doing,
and do it in Austria

ascent.atos.net

For more information please contact:

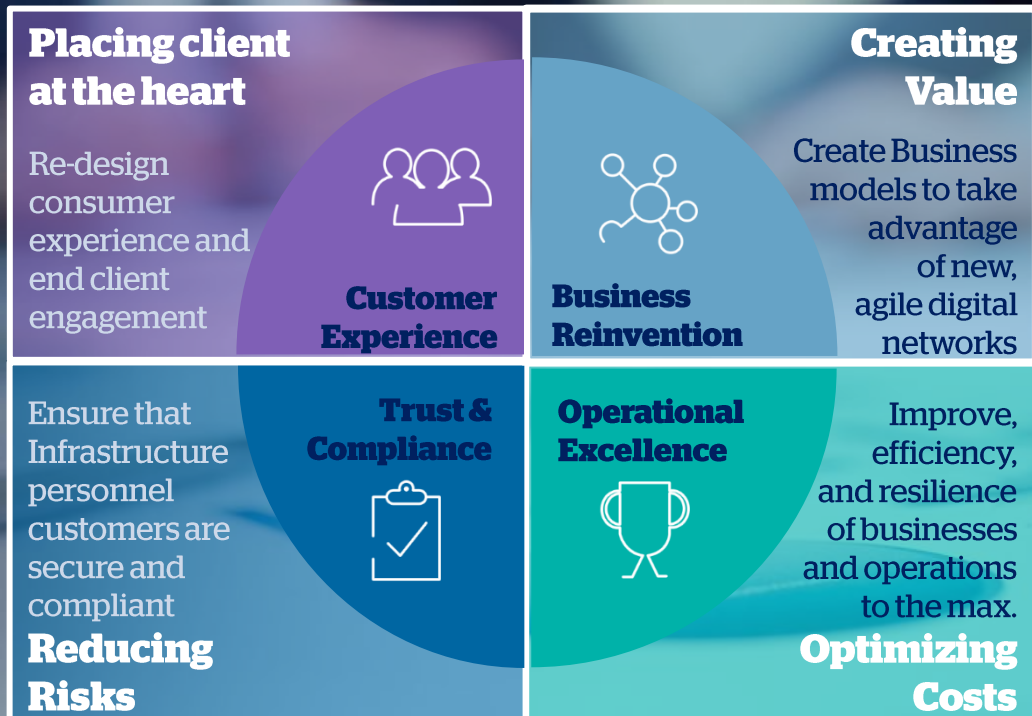
jordan.janeczko@atos.net

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The Atos logo is displayed in a bold, white, sans-serif font. The letter 'A' is significantly larger than the other letters, and the 'o's are stylized with a circular cutout in the center.

Enabling customers to develop a 360° view on Digital Transformation

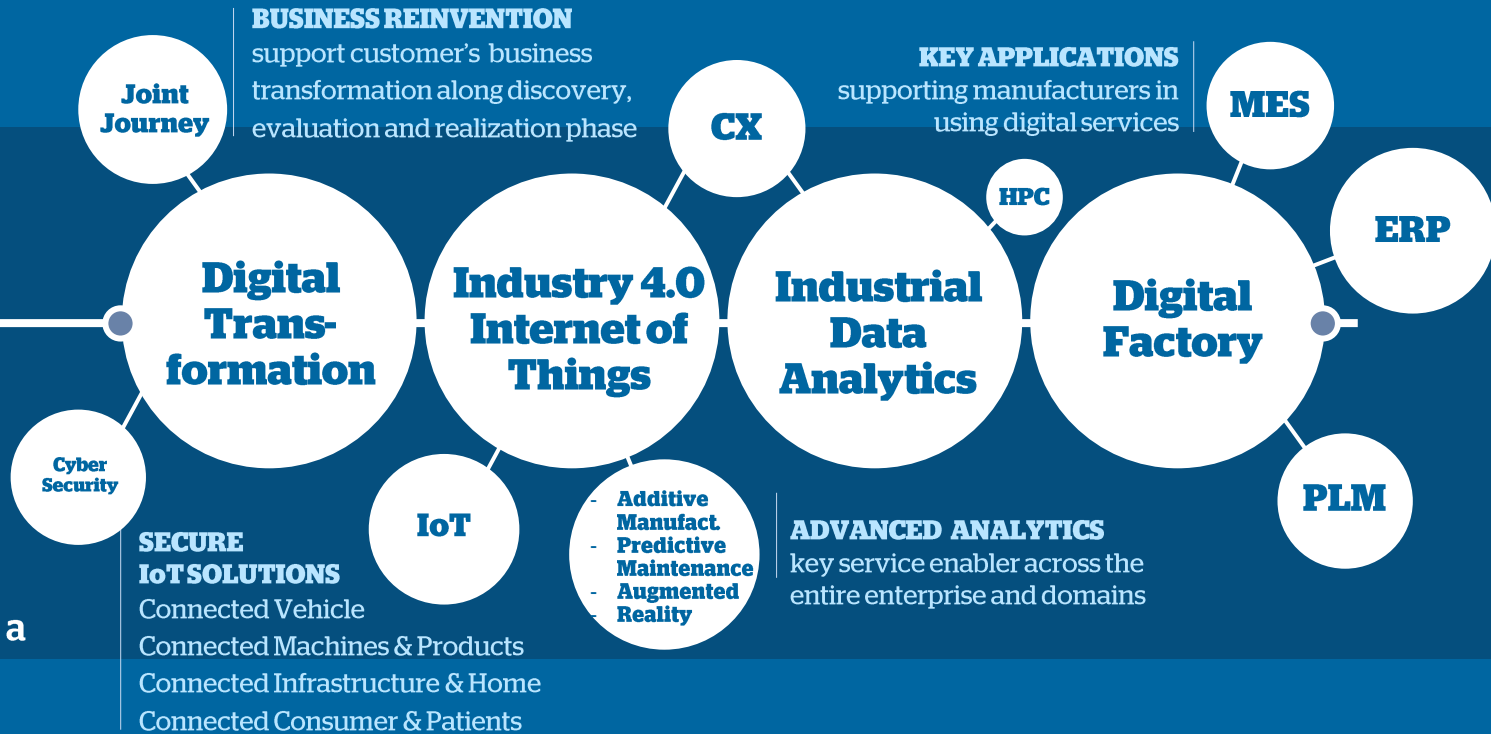


The full portfolio is delivered out of Austria & CEE

Industry proven, flexible, comprehensive

Tomorrow's Enterprise

Best in class manufacturers are able to use the potential of each domain as lever to unlock the full business potential of a Digital World



Real products, not just demo

mi bike



carver
u



Mobile Workorder

Demonstrator on the SAPPire in Orlando and soon in the Pilot Factory

Use Case by
Atos



- ▶ Get Notification on Smart Watch about Maintenance Status of Machine
- ▶ Use Notification of Watch for immediate action (Security, Problem, etc.)
- ▶ Use Tablet to solve Workorder
 - Info about Workorder
 - Spareparts identification
 - Spareparts Location

