

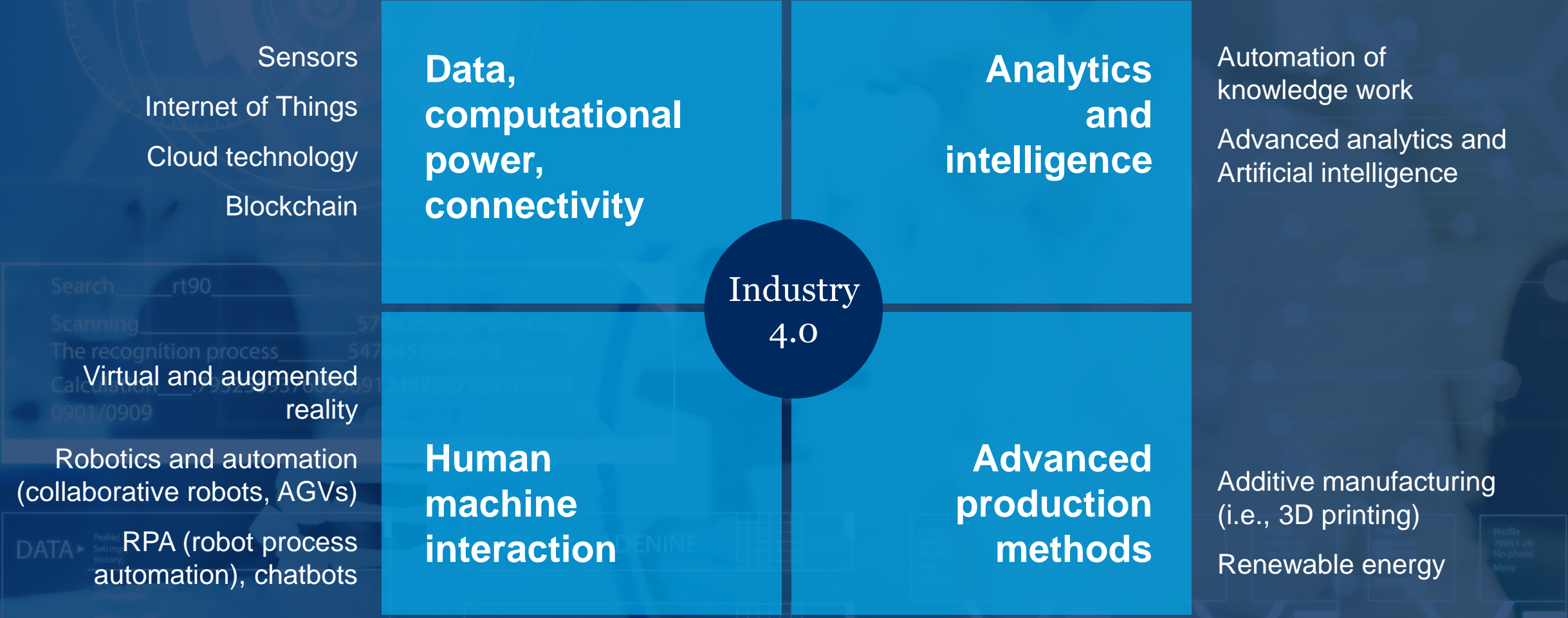
Transforming the supply chain in face of a changing global landscape

Leveraging Ops 4.0 to increase productivity and maximize the supply value chain

"Digital is like teenager sex: everyone talks about it, nobody really knows how to do it, everyone thinks everyone else is doing it, so everyone claims they are doing it"

Dan Ariely

Industry 4.0 is revolutionizing current supply chains along four dimensions...



SOURCE: 'Lighthouse' manufacturers lead the way—can the rest of the world keep up', McKinsey, 2019 report

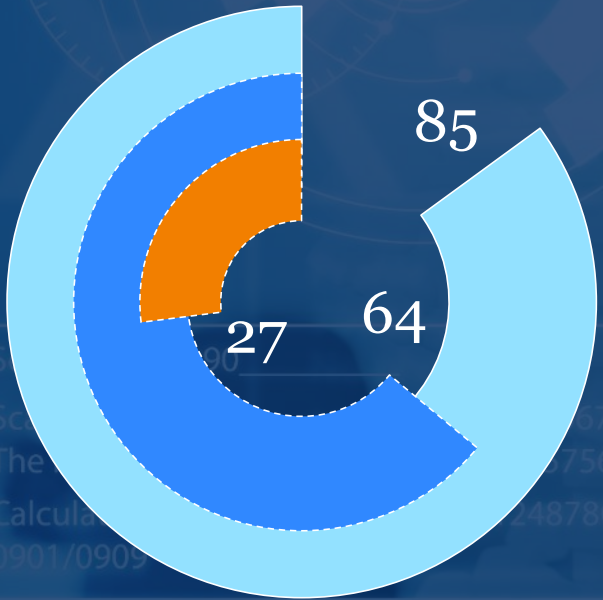
Industry 4.0 is a
top priority for
manufacturers

Top priority
68%

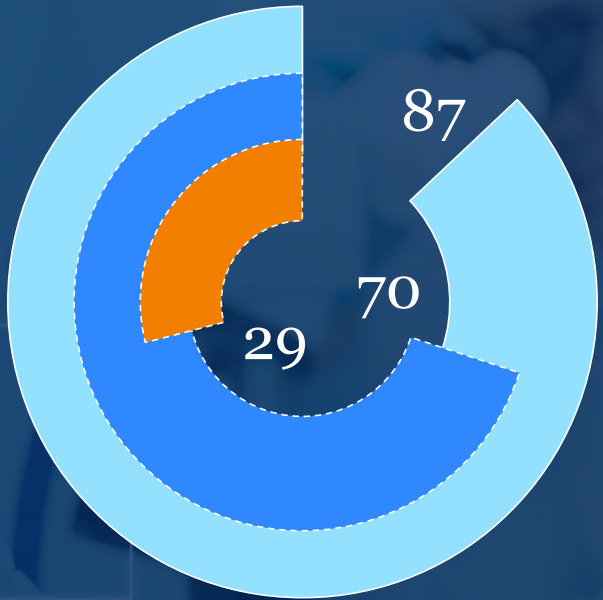


While industry 4.0 solutions are adopted consistently, most companies are not deploying at scale

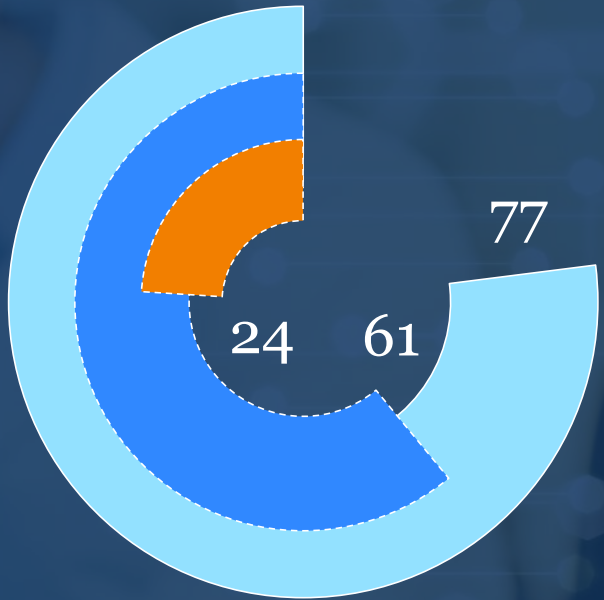
○ Relevance ○ Pilot phase (or advanced) ○ Rollout phase



Connectivity



Intelligence



Flexible automation



SOURCE: How digital manufacturing can escape 'pilot purgatory', McKinsey report, 2018

Many digital innovations are also still emerging from “pilot purgatory”

● Plan ● OM&D ● Enable



We surveyed **76 Supply Chain experts** with a combined prof experience of **1000 years** from different industries on

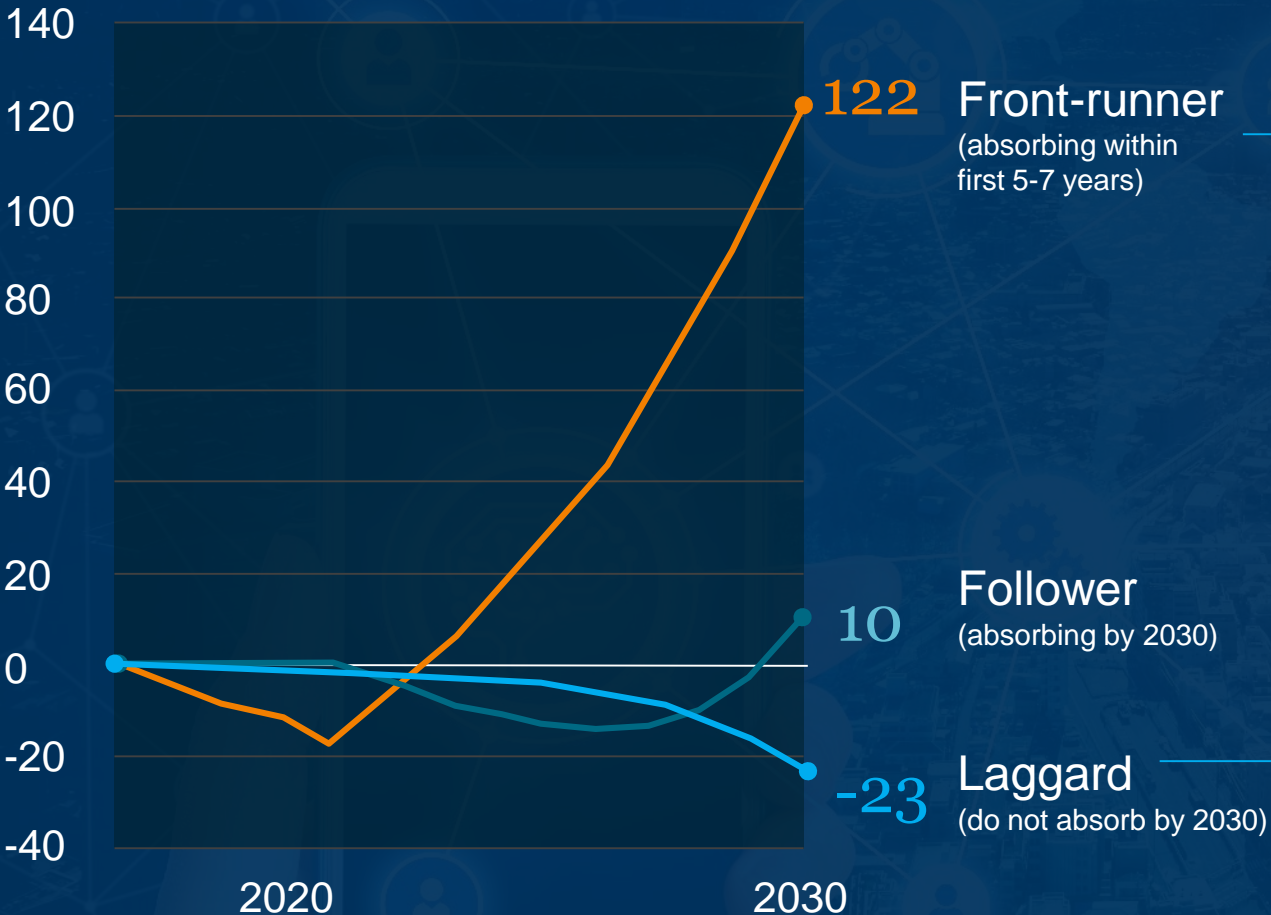
- Current state in cycle
- Time to broad use/pilot

SOURCE: SC 4.0 Innovation survey – responses from 76 experts from different sectors

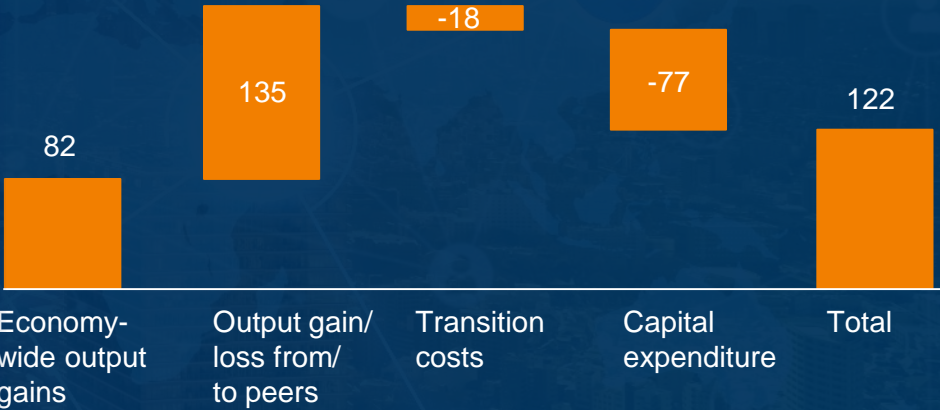
Early 4IR technology adoption pays off

Front-runners are expected to significantly outperform followers and laggards

Relative changes in cash flow by AI-adoption cohort
Cumulative % change per cohort



Front-runner breakdown
% change per cohort



Laggard breakdown
% change per cohort



SOURCE: 'Lighthouse' manufacturers lead the way – can the rest of the world keep up', McKinsey report, 2019

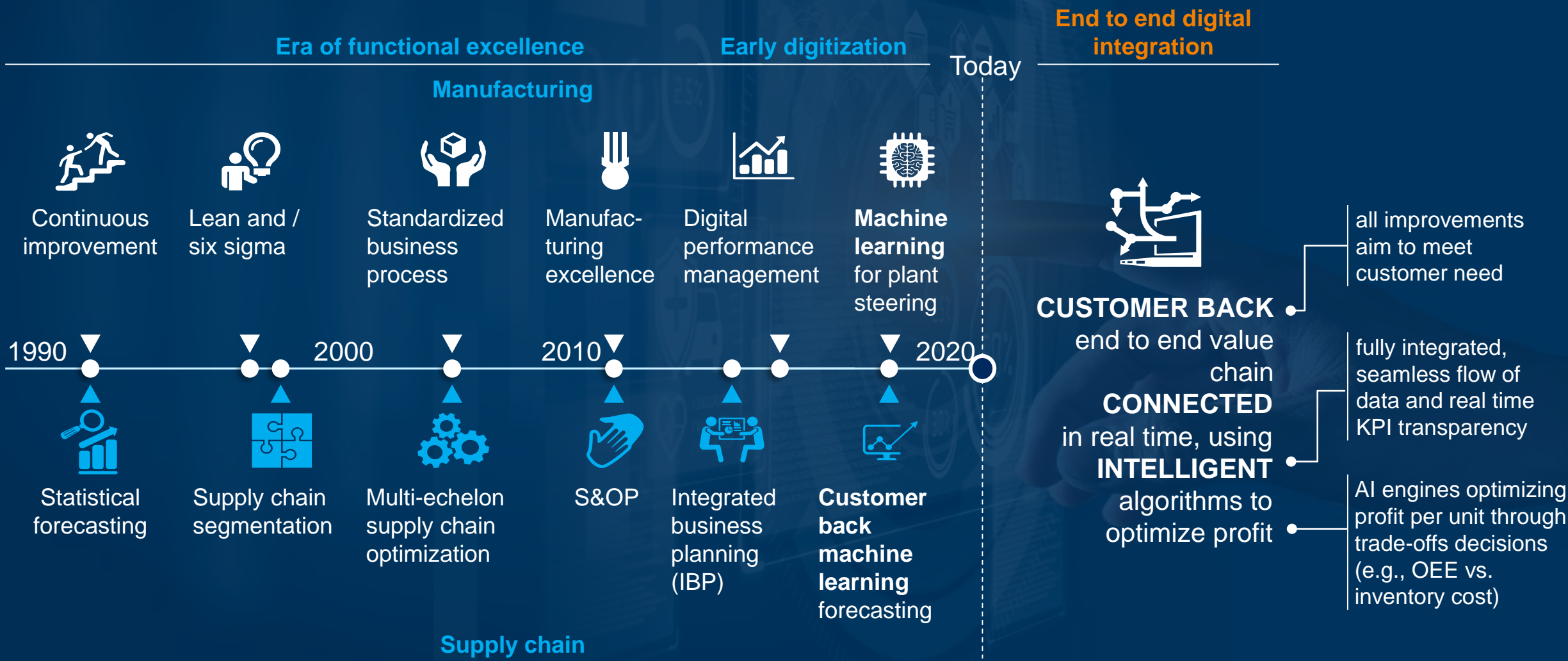
4IR Lighthouses apply digital tools at scale to significantly increase their performance



SOURCE: 'Lighthouse' manufacturers lead the way – can the rest of the world keep up' McKinsey report, 2019

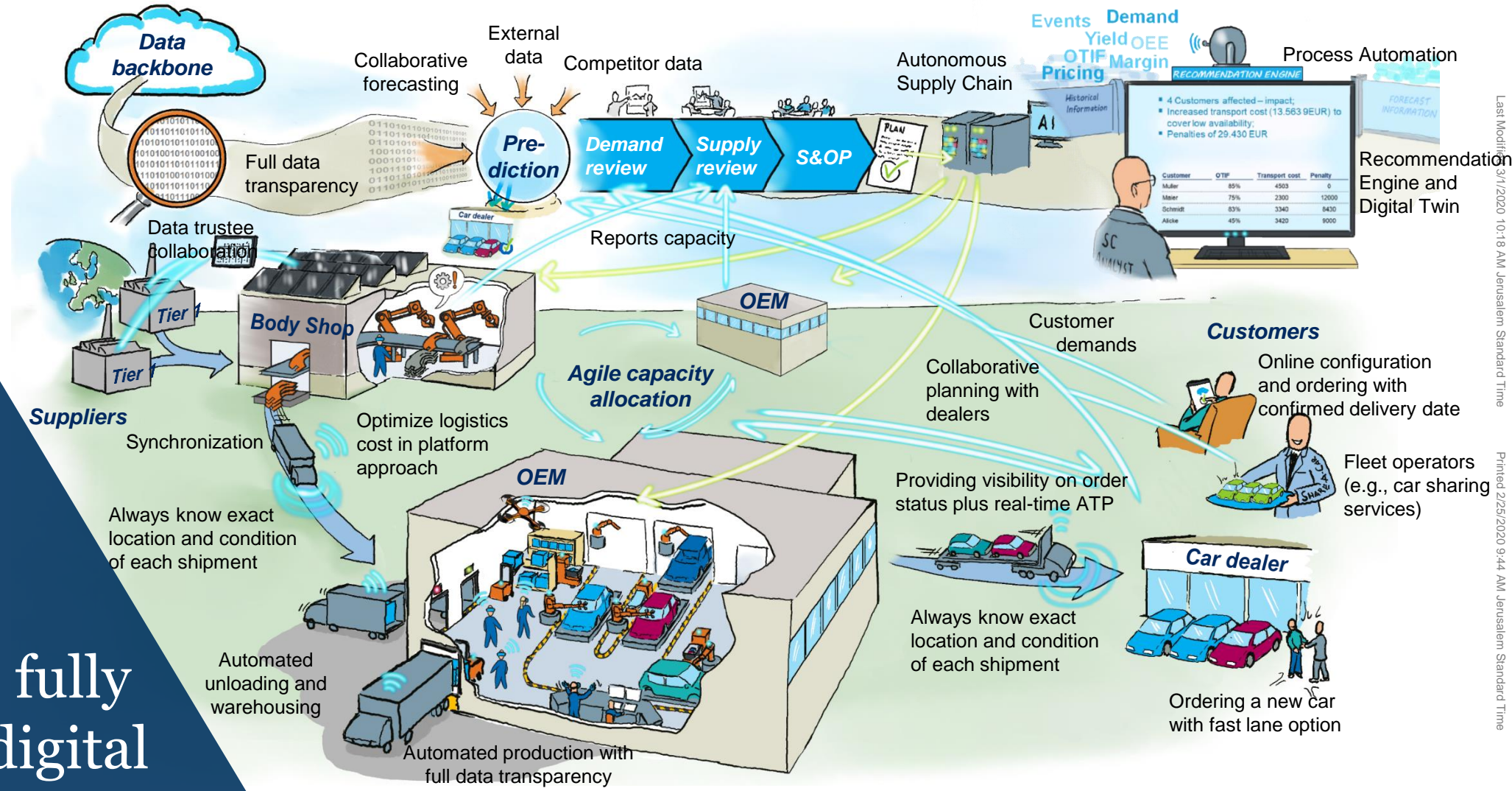
Most advance lighthouses are focusing on integration, digitalization and customer back optimization of connected end to end value chains

ILLUSTRATIVE EXAMPLES



SOURCE: 'McKinsey in collaboration with the World Economic Forum

...Creating a fully integrated, digital supply chain (e.g. automotive)



Last Modified: 03/11/2020 10:18 AM Jerusalem Standard Time
Printed: 2/25/2020 9:44 AM Jerusalem Standard Time

Our research on lighthouses show 6 factors that make them scale successfully during the transformation phase



4IR strategy linked to creation of business value with clear business case



10-15 use-cases are run in parallel with 15+ in the pipeline



Agile working mode and minimal incremental cost to add a use-case



Capability-building via digital academy and model factories



Workforce engagement leaders take active change agent roles and all employees are involved



IoT architecture built for scale-up All data pooled into one data lake and interfaces between applications are standardized.



Case
example

The vision: Quantum leap in customer experience enabled by improvement in business processes

CUSTOMER JOURNEY IMPROVEMENT



Seamless online process for ordering, tracking and queries / complaints

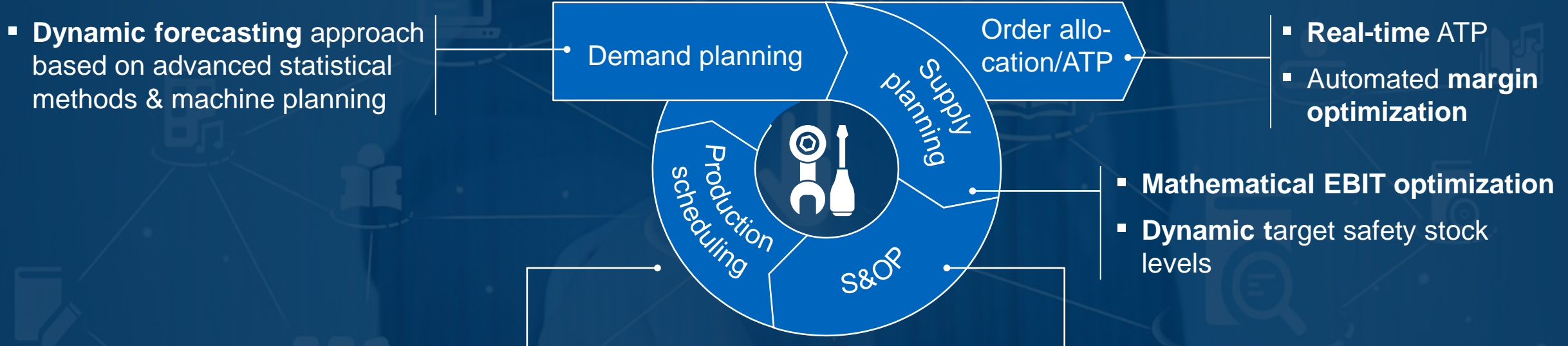
INTERNAL BUSINESS PROCESS OPTIMIZATION

Connected and intelligent S&OP with smart inventory management, production scheduling and demand forecasting



Approach: End-to-end digital optimization from demand planning to order fulfillment

End-to-end planning dashboard



- Optimization engine for supply and demand matching
- Scenario-building capabilities for alternative plans assessment

Seamless and automated interfaces



To implement, we set up a Digital studio with a diverse team of business experts and digital specialists

- Cross functional teams include business and digital roles
- Working across business silos (e.g., marketing & sales and production)
- Product owners
- Agile and digital training on digital roles



- Product owner
- Digital and agile roles
- Designers
- Data scientists
- IT Consultants
- Subject area experts from business

Delivering tangible results to the business every 2 weeks

Business leaders showcase solutions developed,
Customers experience new features and provide
feedback towards next release

**Visible
value
dashboards**



**Agile
working
boards**

**Business
End users and
managers**

E2E optimization creates impact across the entire value chain



+3%

Profit increase



20+pp

Improvement in service levels



>7 MEUR

Working capital savings



~20%

Improvement in forecasting



>90%

Plan adherence



Improve customer experience



Simplified and more agile processes

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