

FIEE Smart Future



FIEE Smart Energy

abinee ²⁰¹⁹TEC

Ilhas Temáticas

Digitalização da Indústria Brasileira

Digitalization changes everything

The next trillion dollars will be earned with data – for our customers and for our industries.

Michael Dell, founder of Dell Inc.

Digital companies is the main reason just over half of the on the Fortune 500 have disappeared since the year 2000.

Pierre Nanterme, CEO Accenture

This “now world” requires companies to respond in real time wherever they are or their customers or clients may be.

Klaus Schwab, The Fourth Industrial Revolution

New business models



Speed



Flexibility



Quality



Efficiency

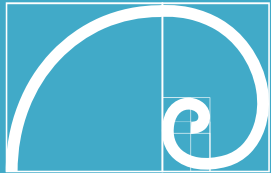


Security

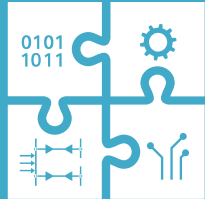
Changing the way products come to life

Changing the way products are realized

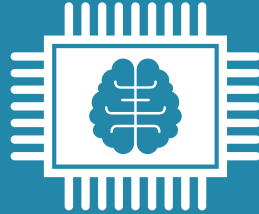
Changing the way products evolve



Generative
design



Intelligent
models



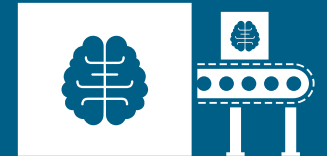
Intelligent
automation



Additive
manufacturing



Cloud
ecosystems



Knowledge
automation



System of
systems



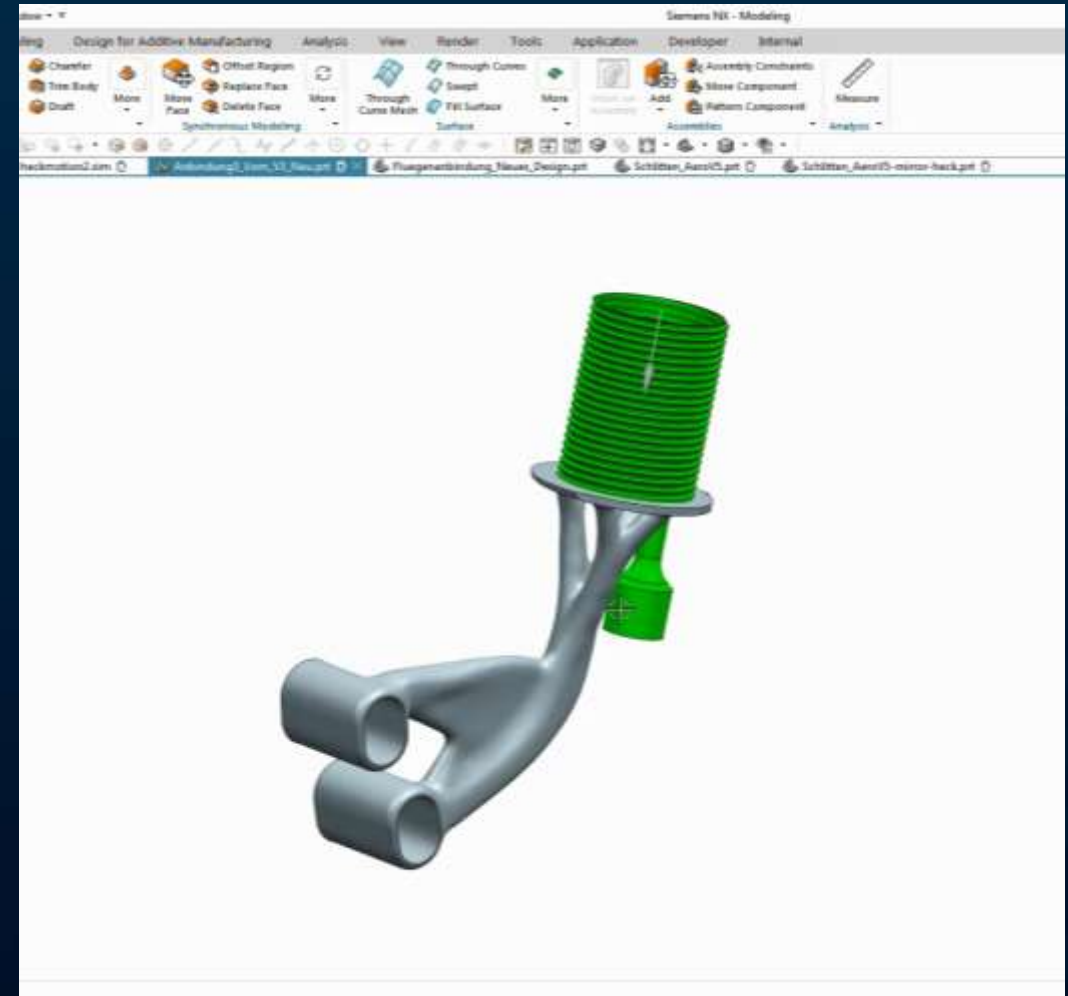
Advanced
robotics

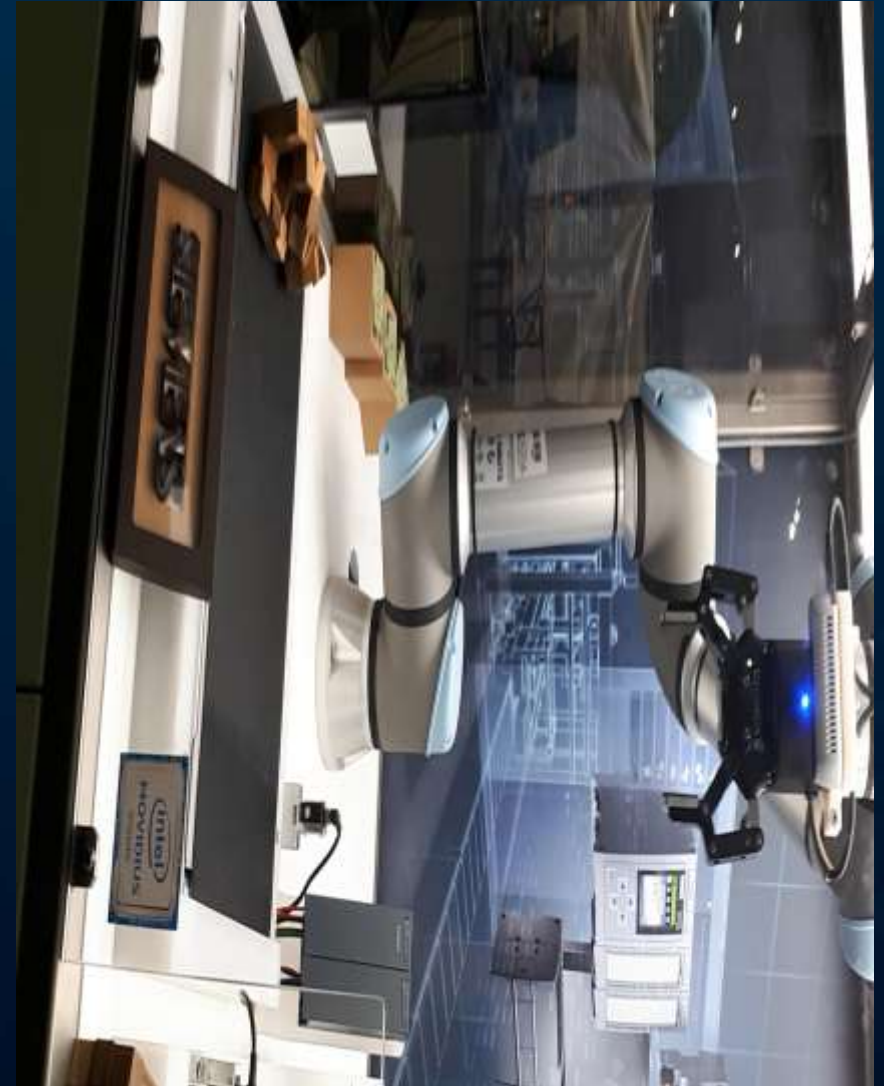
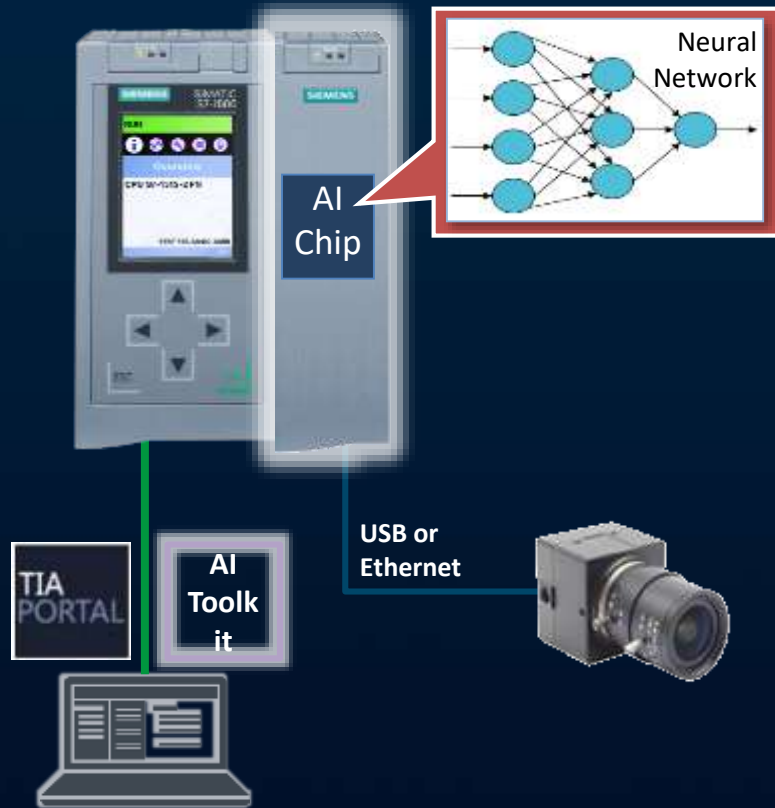


Big data
analytics

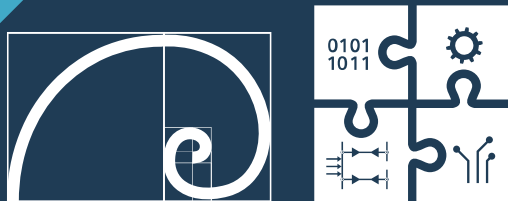


- Expanded product performance
- Improved functional efficiencies
- Reduced design weight
- Use less material in manufacturing



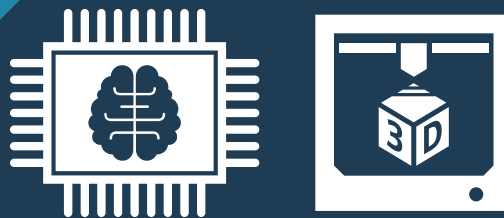


Ideation



System of
systems

Realization



Advanced
robotics

Utilization



Big data
analytics

Ideation

1 Product design

2 Production planning

Realization

3 Production engineering

4 Production execution

Utilization

5 Services

Ideation

1 Product design

2 Production planning

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Utilization

5 Services

Ideation

1 Product design

2 Production planning

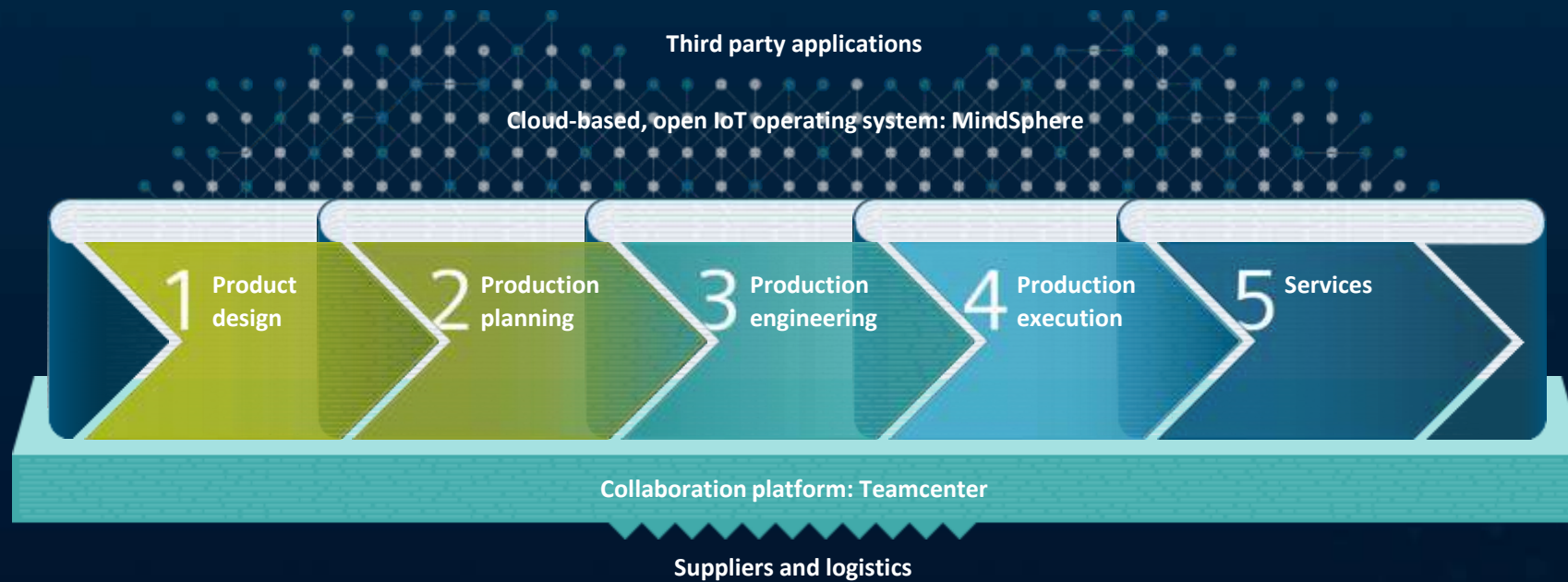
Realization

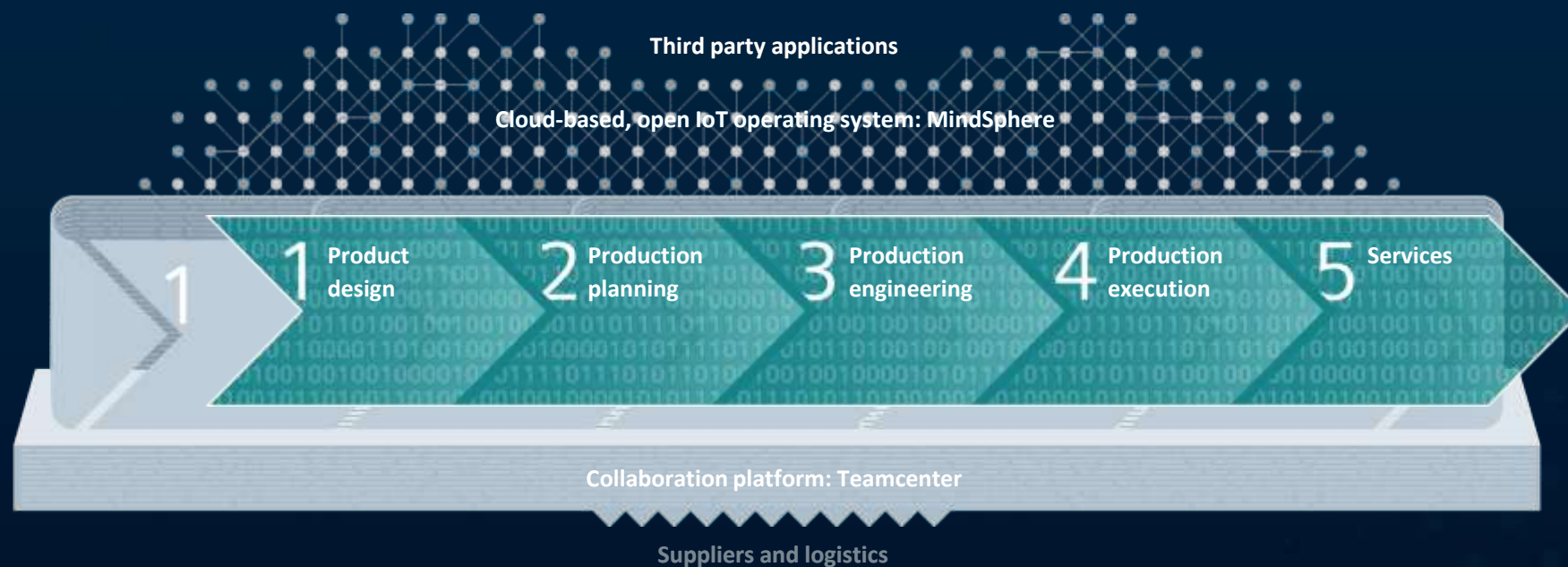
3 Production engineering

4 Production execution

Utilization

5 Services





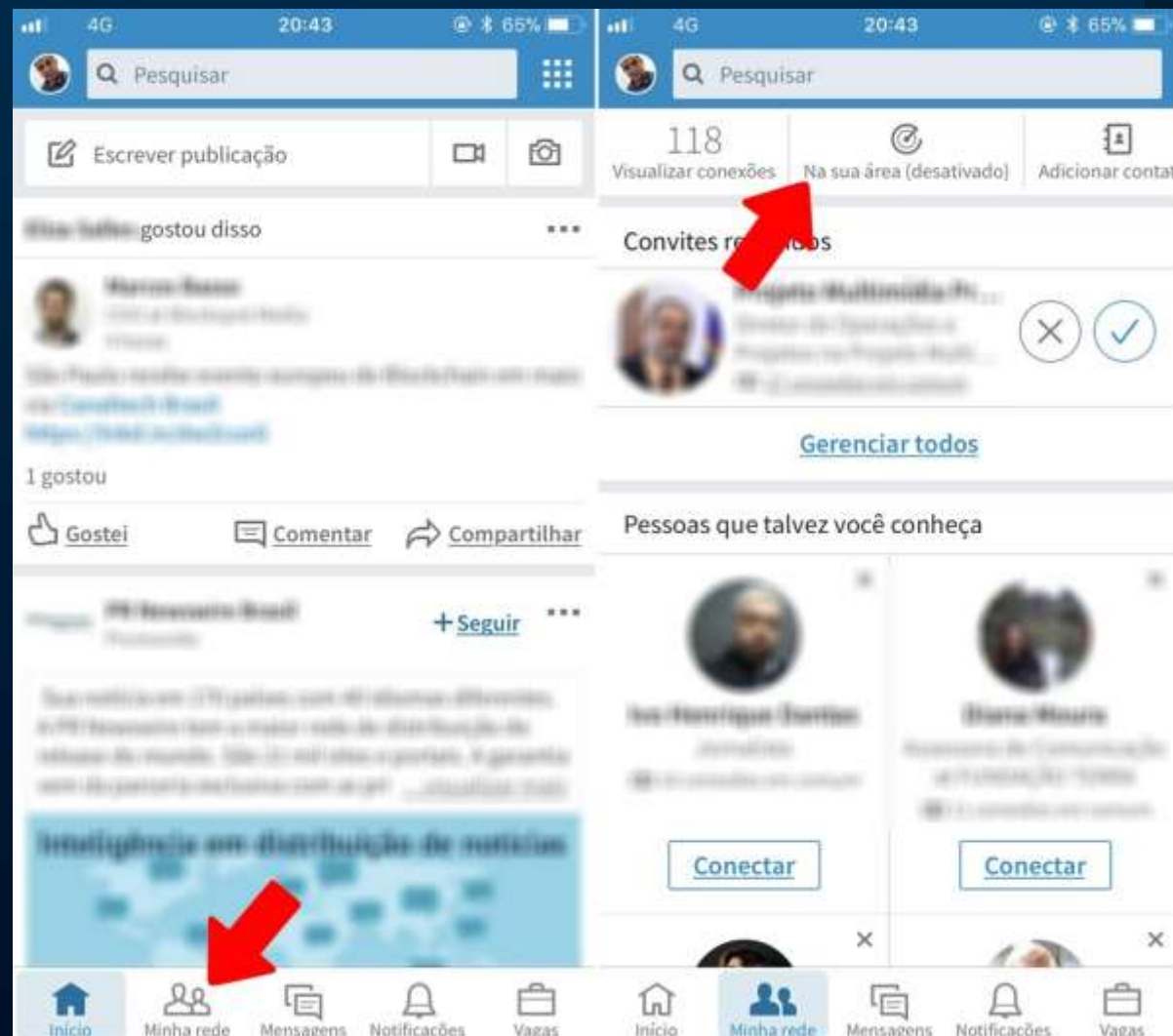


Muito Obrigado!

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 FIEE Smart **Future**

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Ilhas Temáticas

Inteligência para Flexibilidade do Processo Produtivo



VUCA

Volatility

Uncertainty

Complexity

Ambiguity

Digitalization changes everything

Only 11% of the Fortune 500 companies
from 1955 are still in the list today

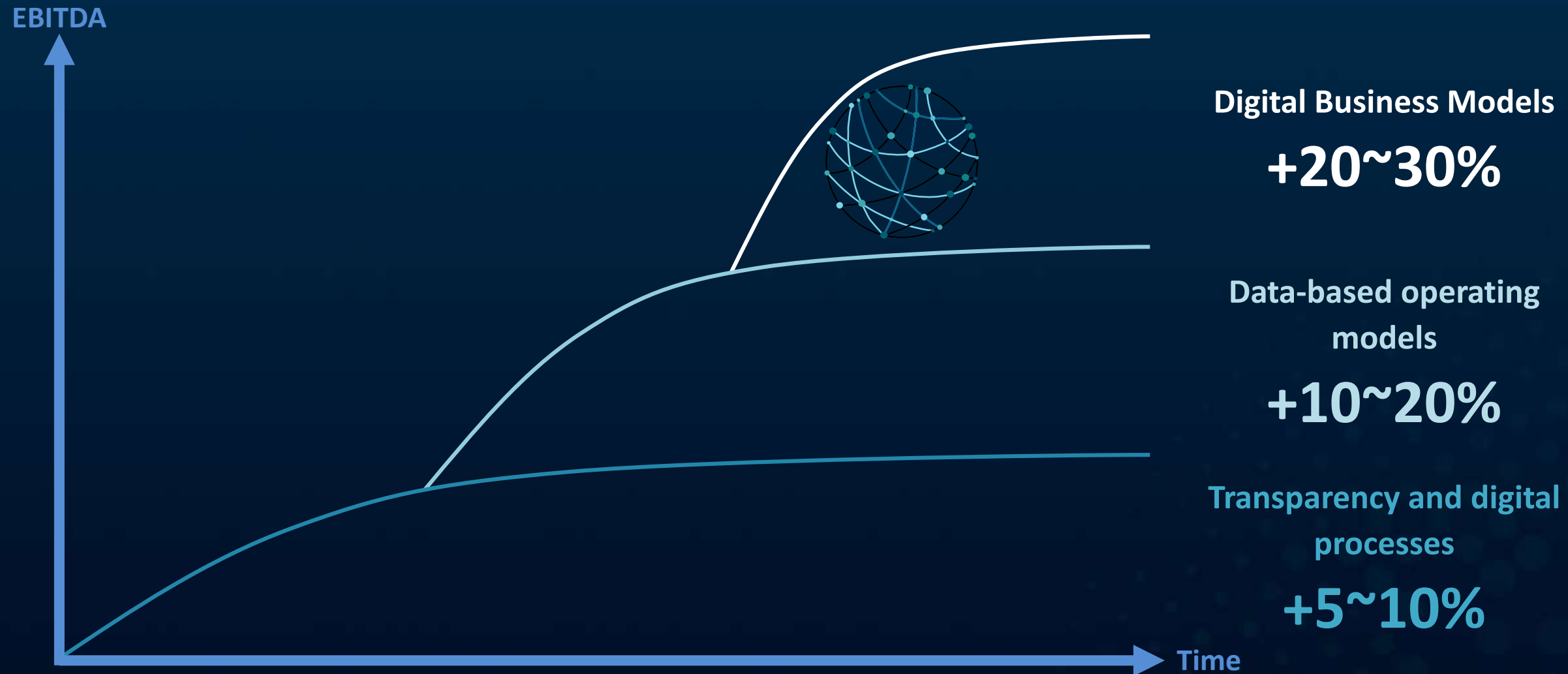
<https://fortune.com/fortune500/>

The greatest danger in times of turbulence
is not the turbulence. It is act with
yesterday's logic.

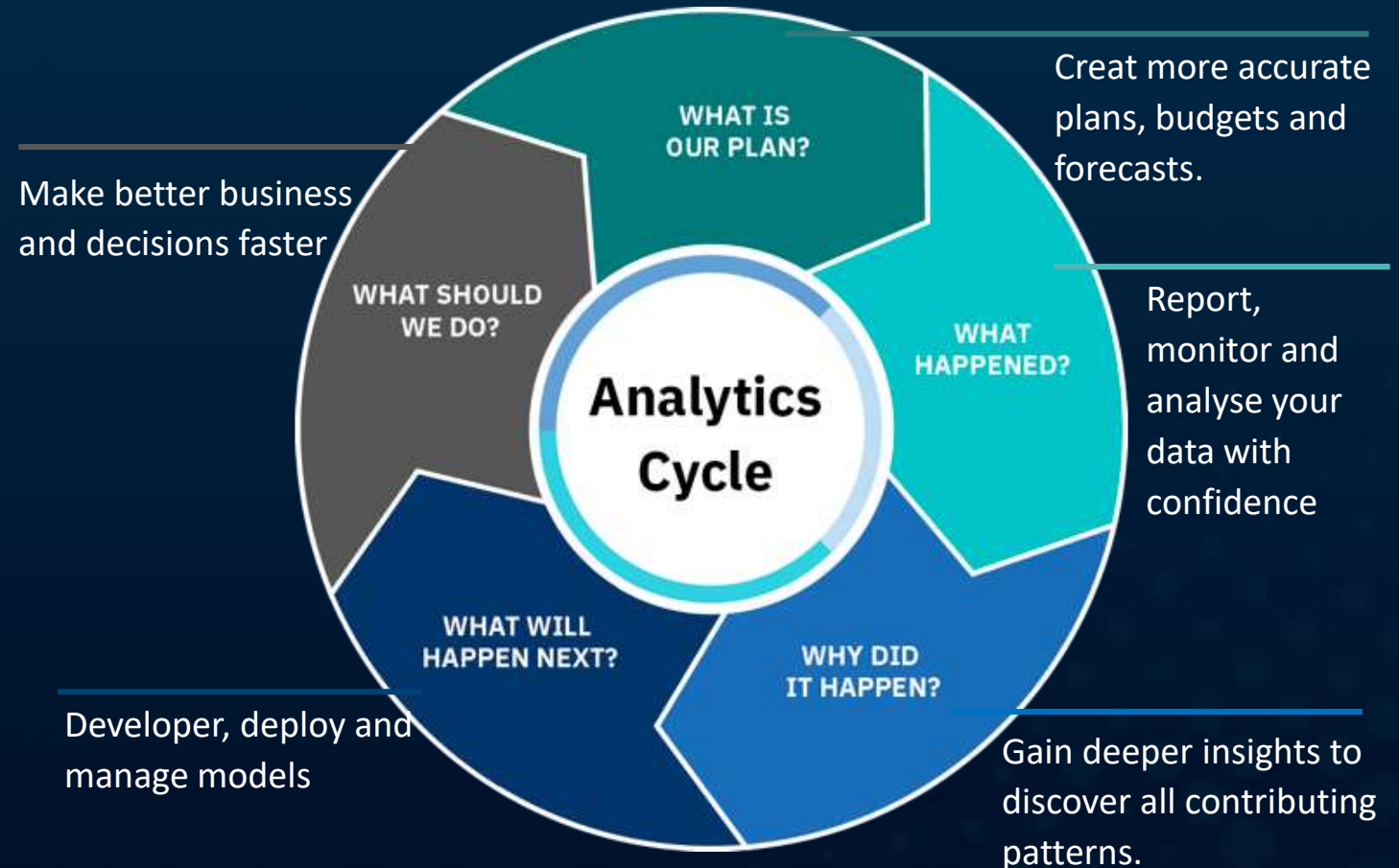
Peter F. Drucker

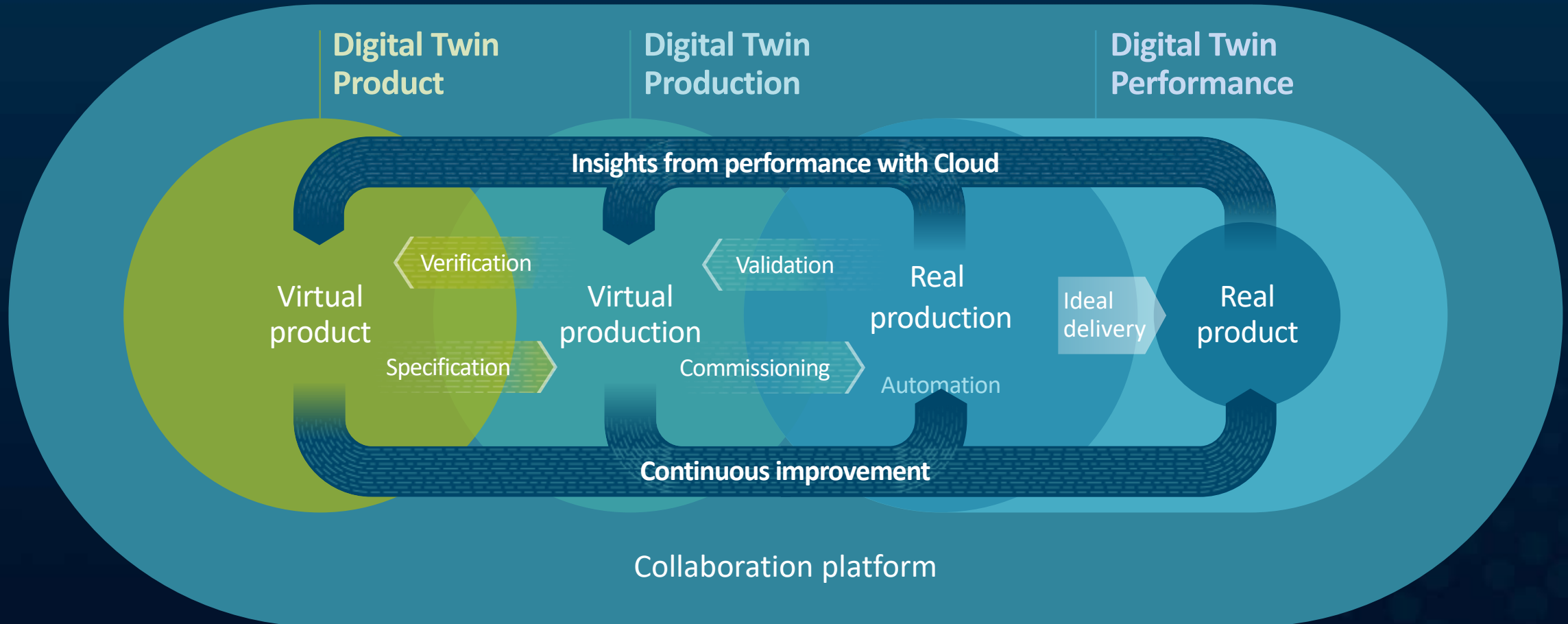
If the rate of change outside exceeds the
rate of changes inside, the end is sight..."

Jack Welch



Source: Wehberg, G., Die Triple Long Tail Strategie, (www.TripleLongTail.com)





Generative
Designer

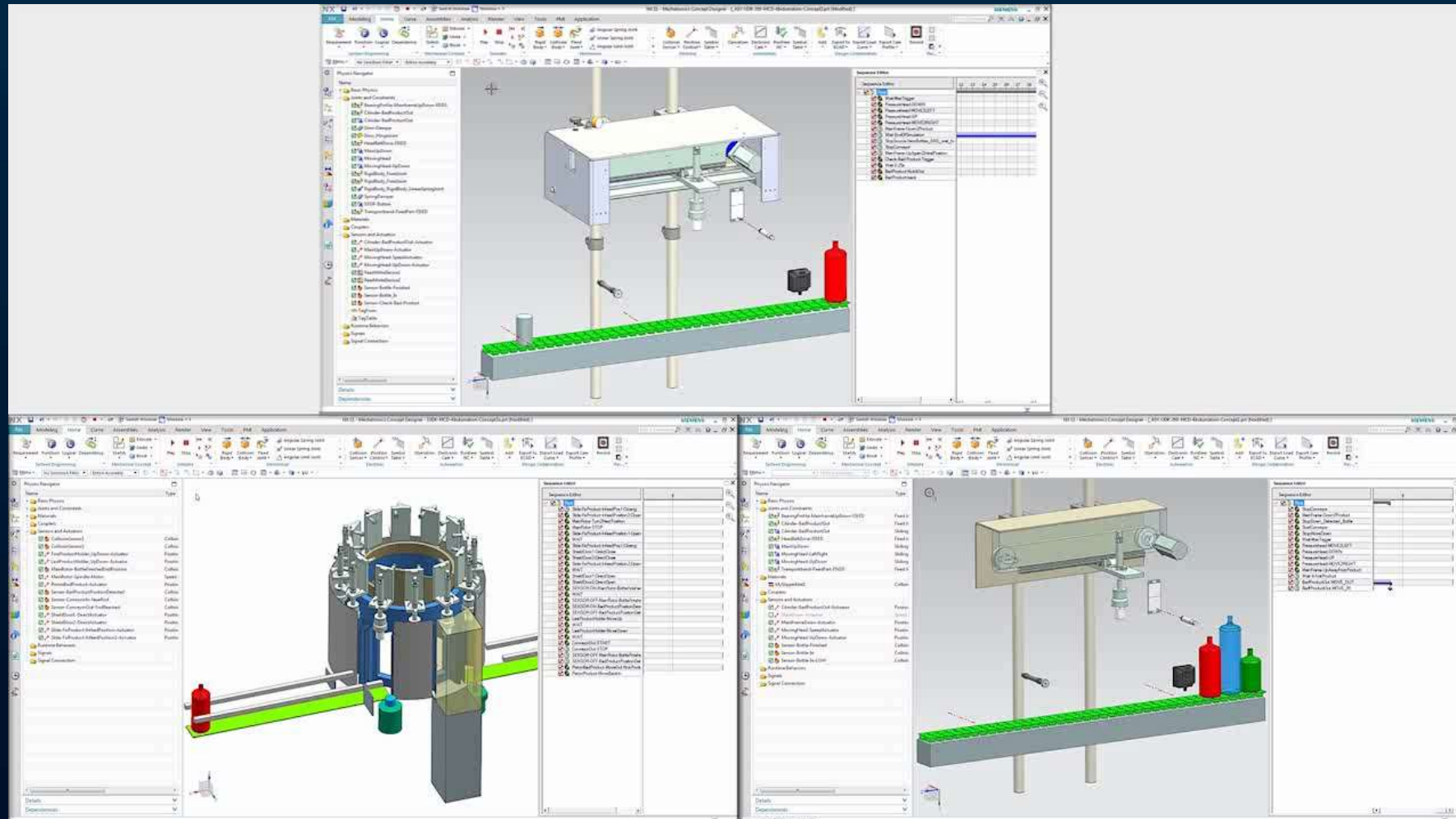
Additive
Manufacturing

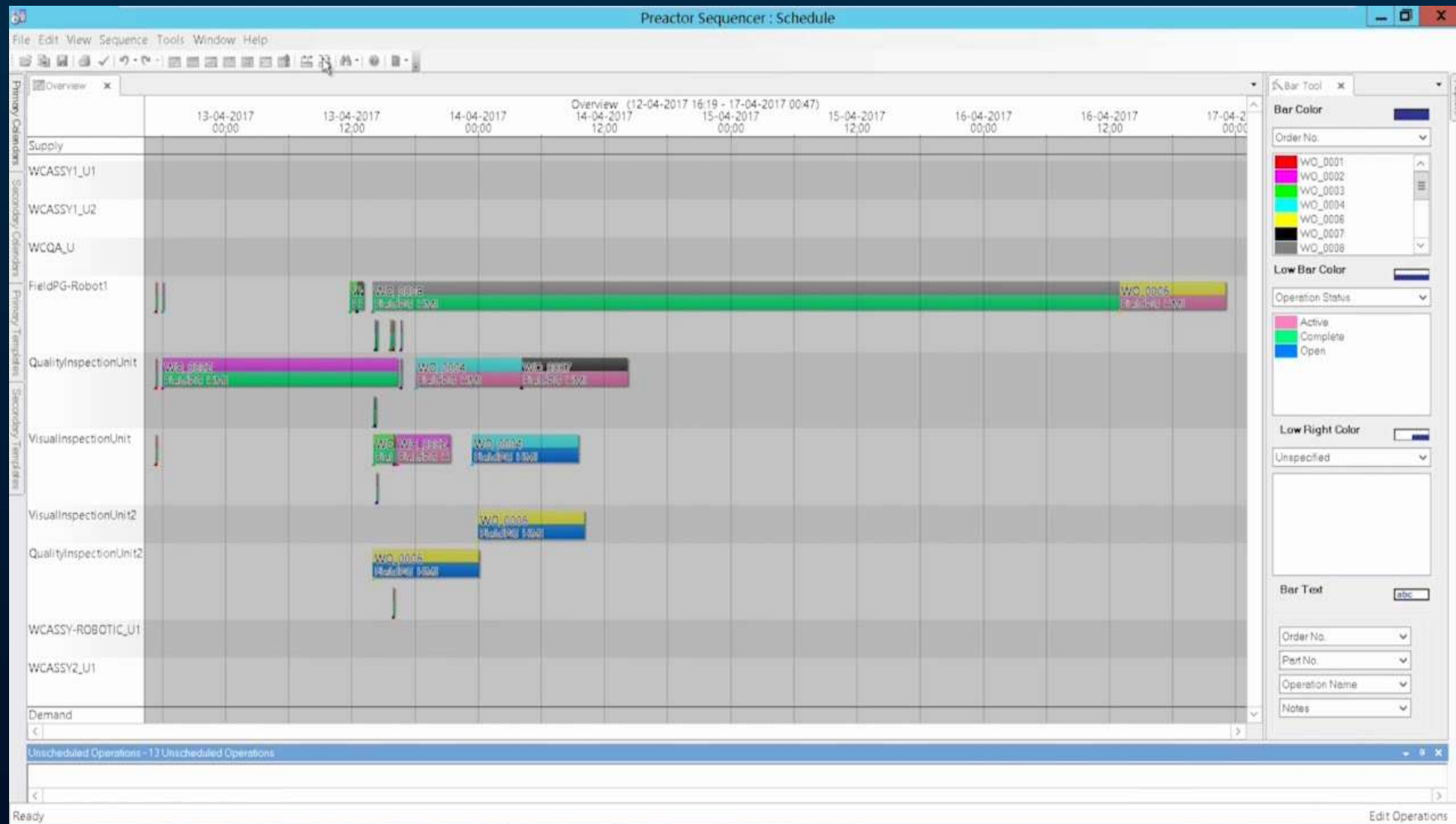
Edge
Computing

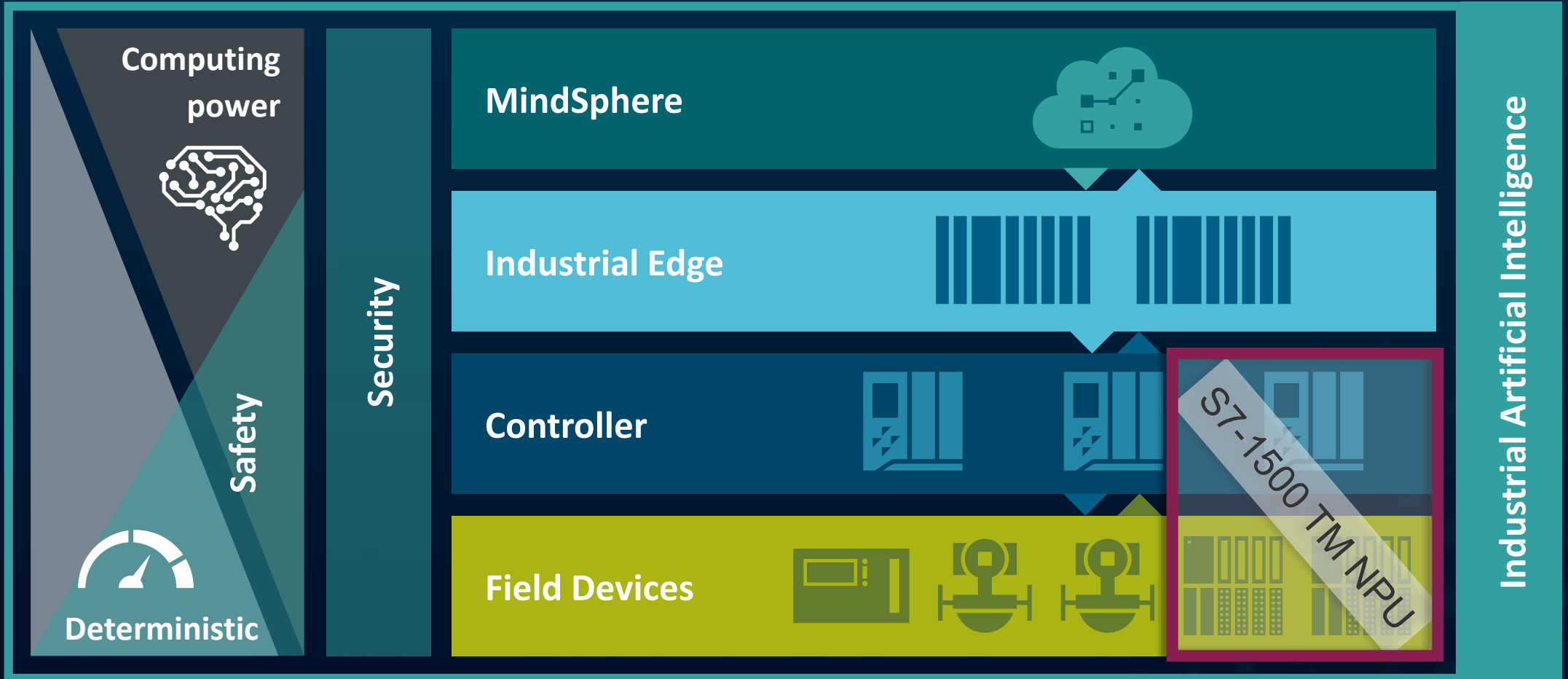
Artificial
Intelligence

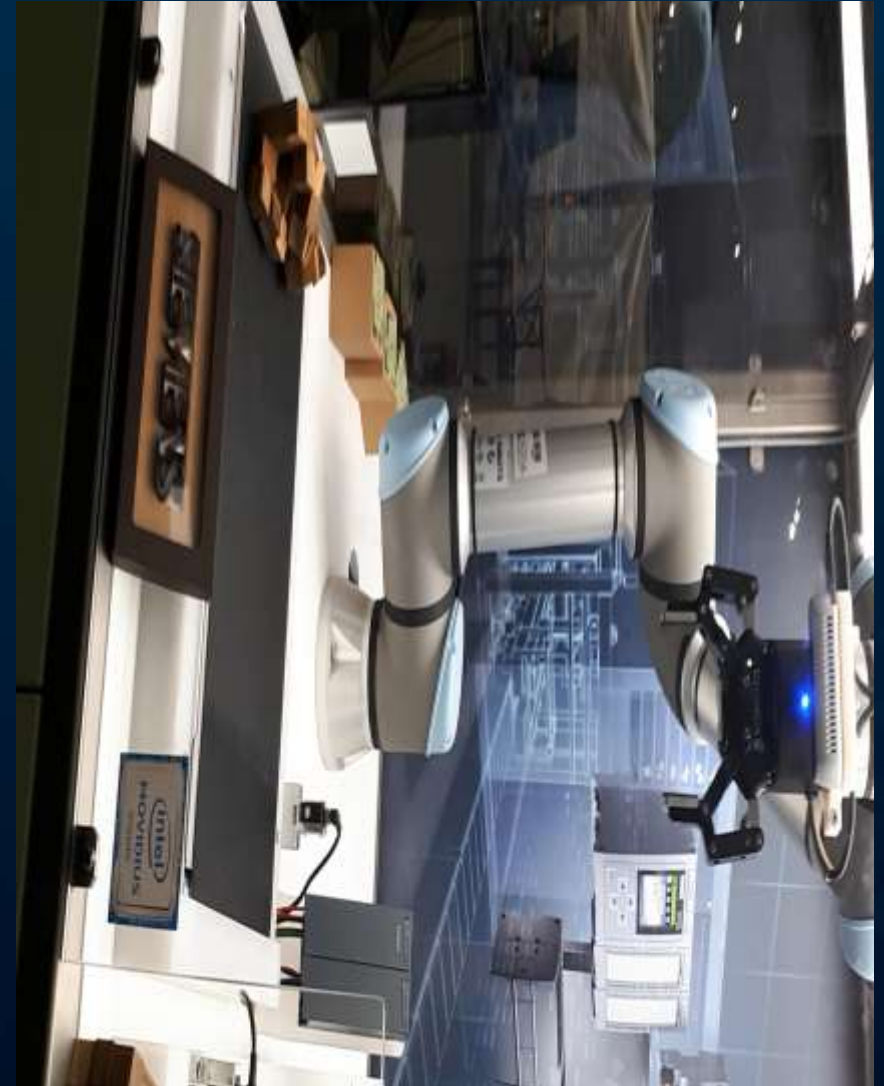
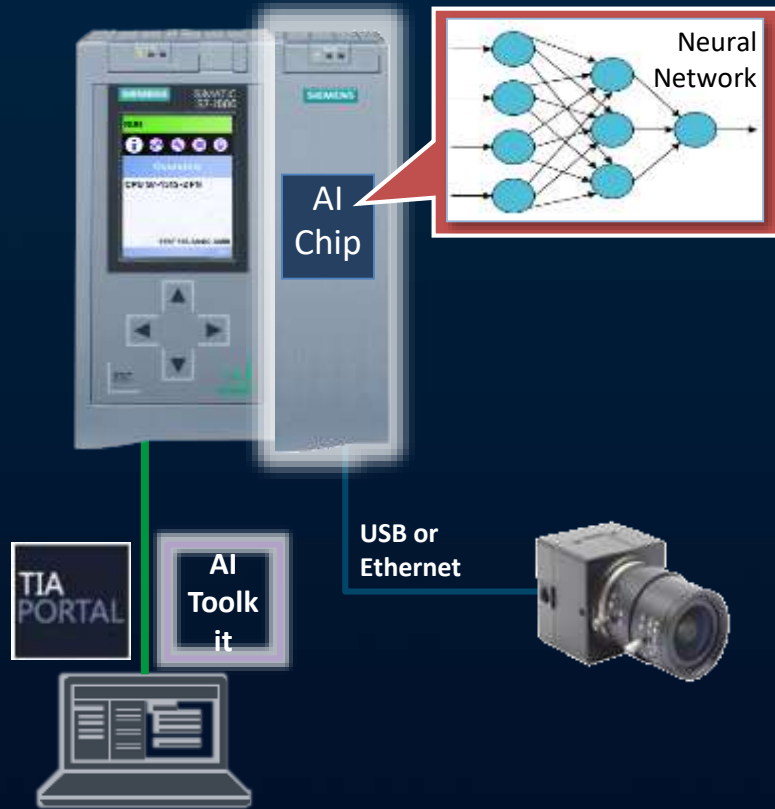
Industrial 5G

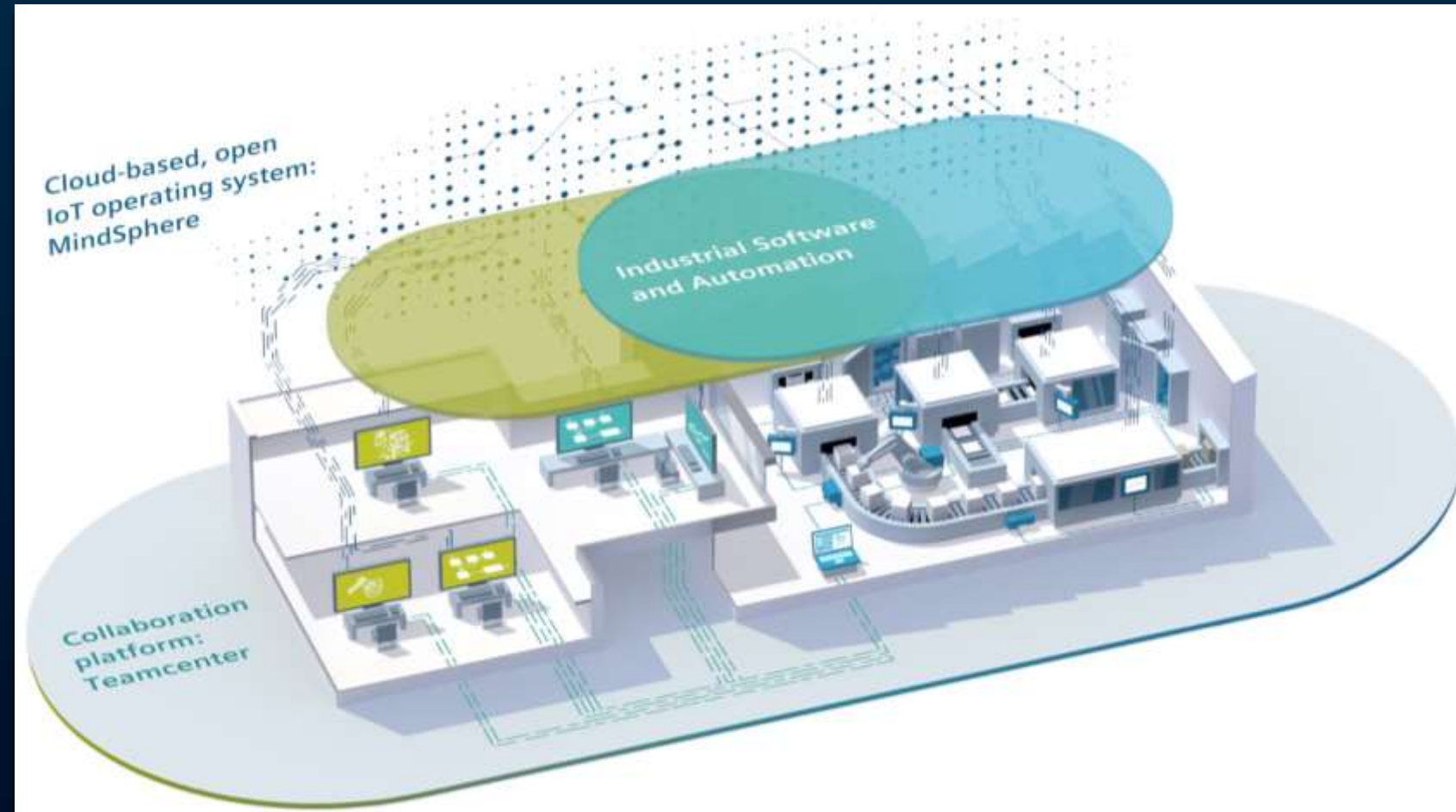
Advanced Planning
& Scheduling









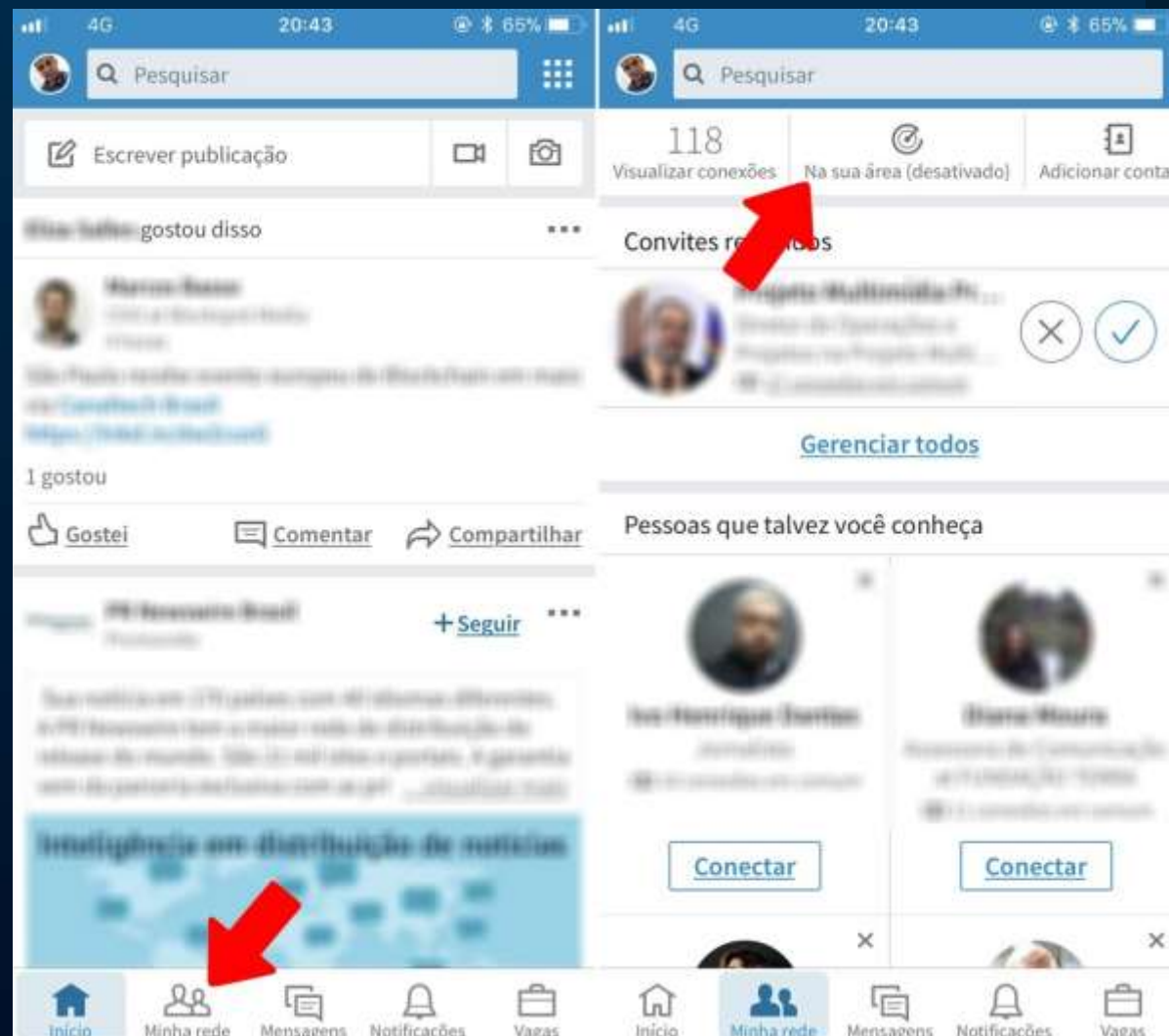


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