



Sunil Subrahmanyam Yadavalli Senior Consultant, KPMG

About Me

Senior Consultant in KPMG's Digital Strategy and Advisory practice

7+ years of experience in Telecommunications & IT industry with key focus on Revenue Assurance, Digital Strategy, Business Intelligence & ICT transformation

TM Forum certified Revenue Assurance Practitioner and a "Certified Data Management Professional" from Data Management Association

Member of DSCI (Data Security Council of India), Hyderabad chapter

A guest speaker and visiting faculty at VIT University, Vellore having trained 800+ graduates in project management & digital transformation.

Served as a resource person at various forums for AICTE, APSSDC, TASK and member at various panel discussions

Expert Mentor for MBA department of Mahindra University, Hyderabad and Member in MBA Board of Studies (BOS), Sri Padmavati Mahila Visvavidyalayam (Women's University), Tirupati

Published 5 research papers and paper presentation in international conference on Business Analytics and Intelligence at IISc (Indian Institute of Science), Bangalore



Did not exist in 2006

- iPhone
- Android

iPad

Oculus

Kindle

Instagram

• 4G

Snapchat

• Uber

Whatsapp

- Airbnb
- Android

Time to reach 100 Million customers

• Telephone 75 Years

- Web 7 Years
- Facebook 4 Years
- Instagram 2 Years
- Pokemon Go 1 Month

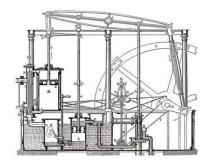




Industrial Evolution







2. Industrial revolution
Introducing mass production
lines powered by electric
energy

Through the use of electronics and IT further progression in autonomous production

Level of complexity

1. Industrial revolution
Introducing mechanical
production machines powered
by water and steam

Industry 1.0

End of the 18th century.

Industry 2.0

Beginning of the 20th century

Industry 3.0

Beginning of the 80's

Industry 4.0

Today

Source: DFKI/Bauer IAO

From $1.0 \rightarrow$ Industry 4.0



Volume of Data

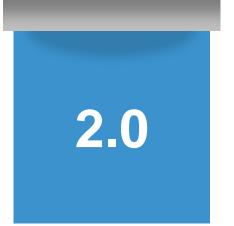
Data storage was the prime focus in Industry 1.0. Most of the initial companies worked on increasing storage capacity





Velocity of Data

Internet era pushed the boundaries of data sharing and TCP/IP protocols and world wide web infrastructure facilitated better speeds





Variety of Data

With mass adoption of IT systems through Cloud and access through mobile phones, Varieties of Data got created and Data analytics prevailed





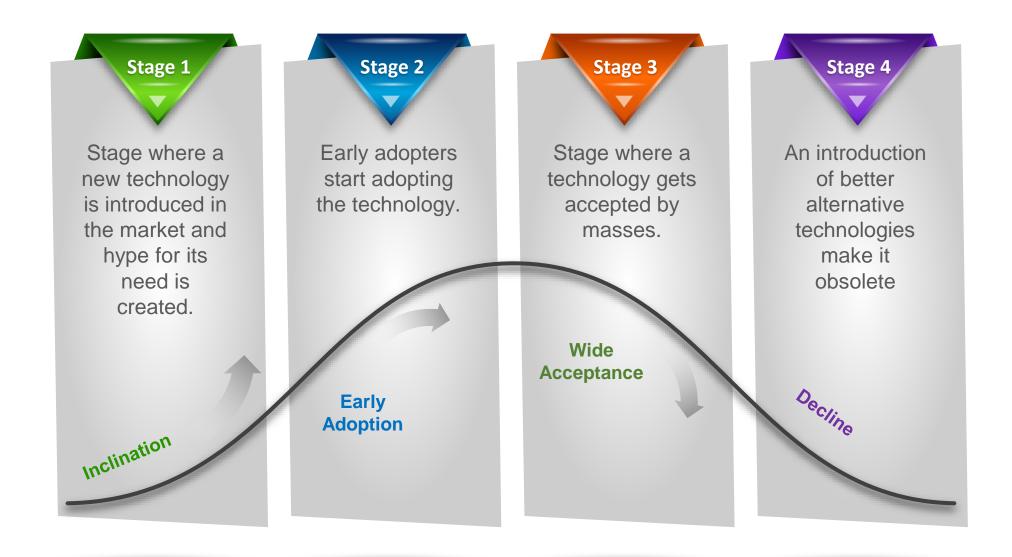
Veracity of Data

Data security and integrity has become a priority with increasing digital transformation of businesses



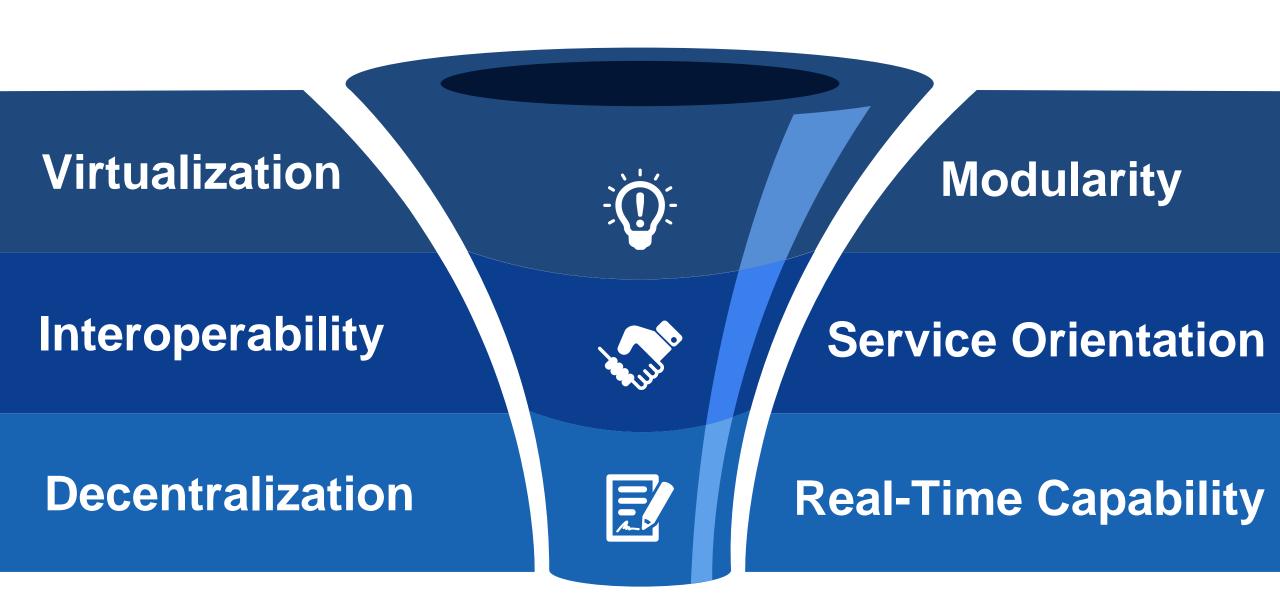
Private & Confidential

Technology Life Cycle

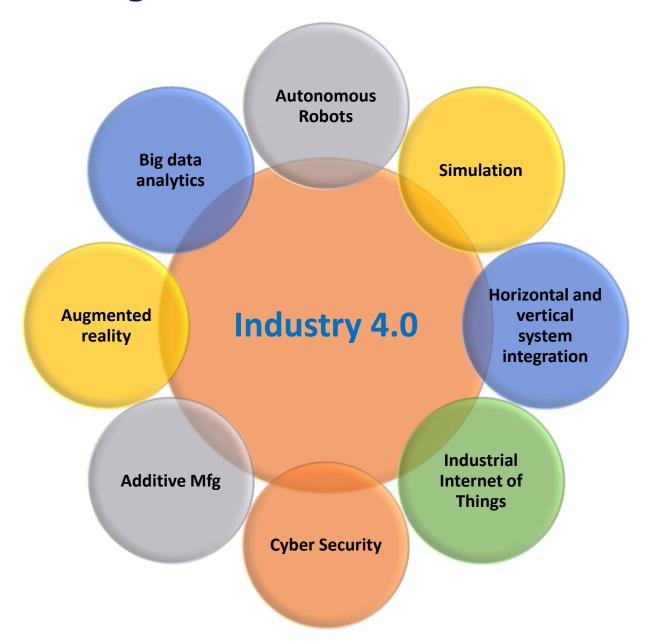


7 Private & Confidential

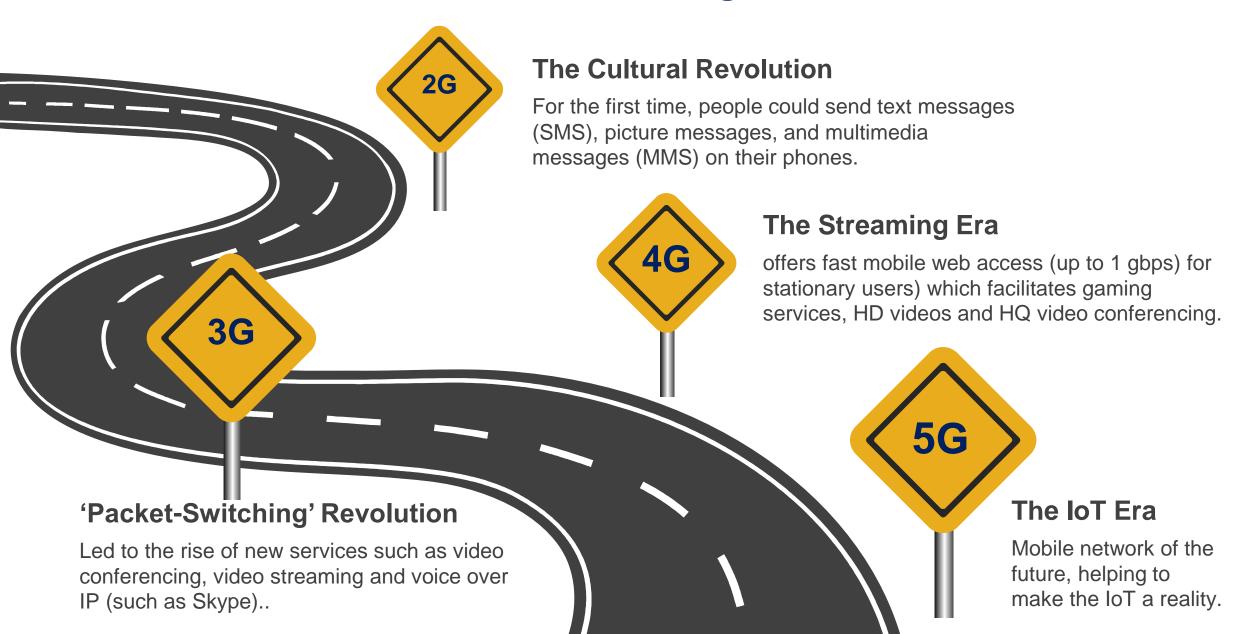
Industry 4.0 – Design Principles



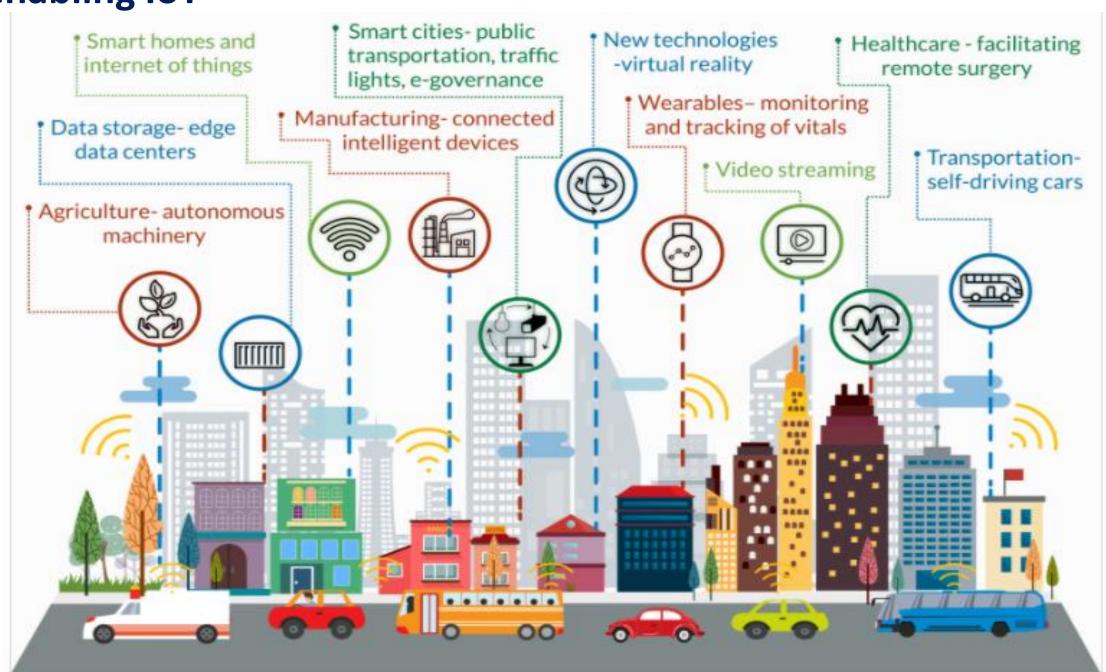
Industry 4.0 – Building Blocks



Evolution of Next Generation Technologies



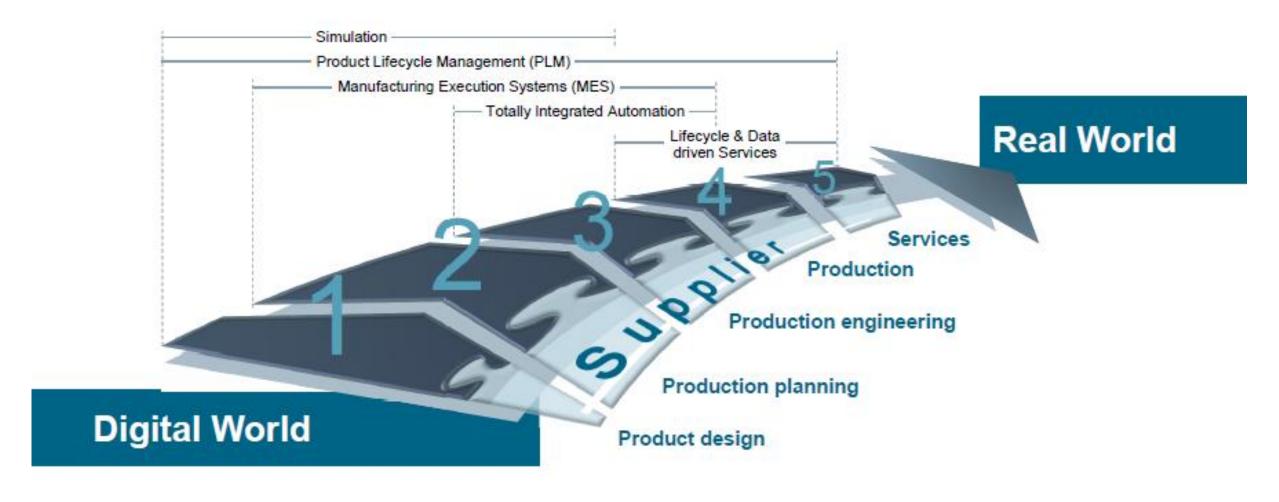
5G enabling IoT



Source: prasa-pl.com

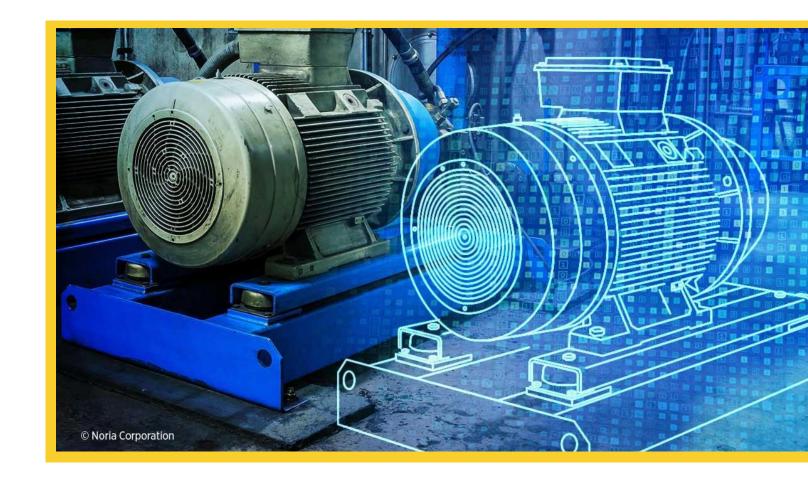
Digital Enterprise

Entire value chain is digitized and integrated



WHAT IS DIGITAL TWIN?

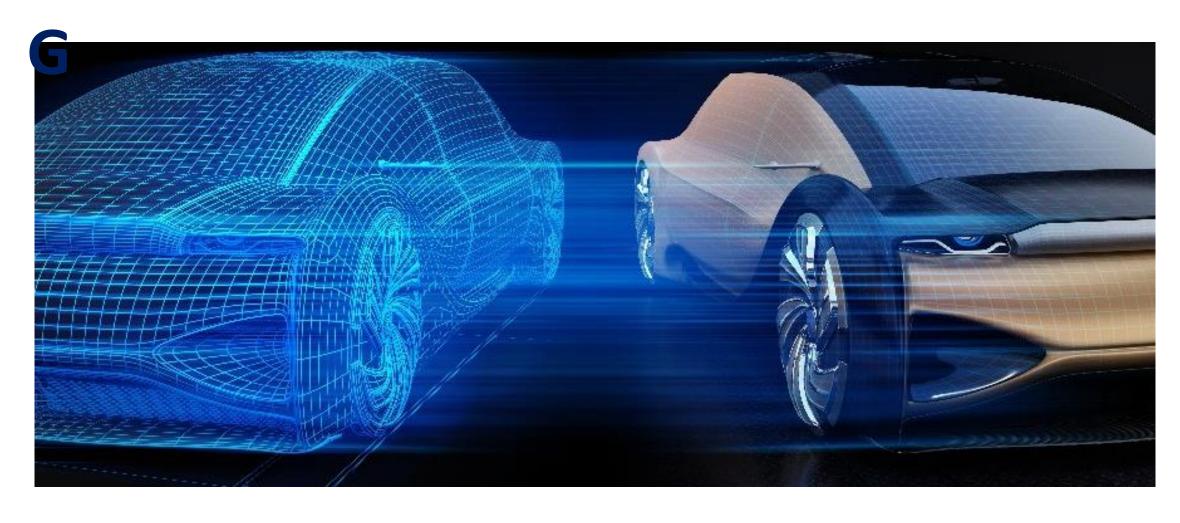
- A near-real time digitized copy of a physical object
- Simulation models of living counterparts



AGRICULTUR



MANUFACTURIN



GOVERNMENT



TRANSPORTATIO



RETAIL



