

Disruptive Technologies in Nuclear and Construction

Point of View

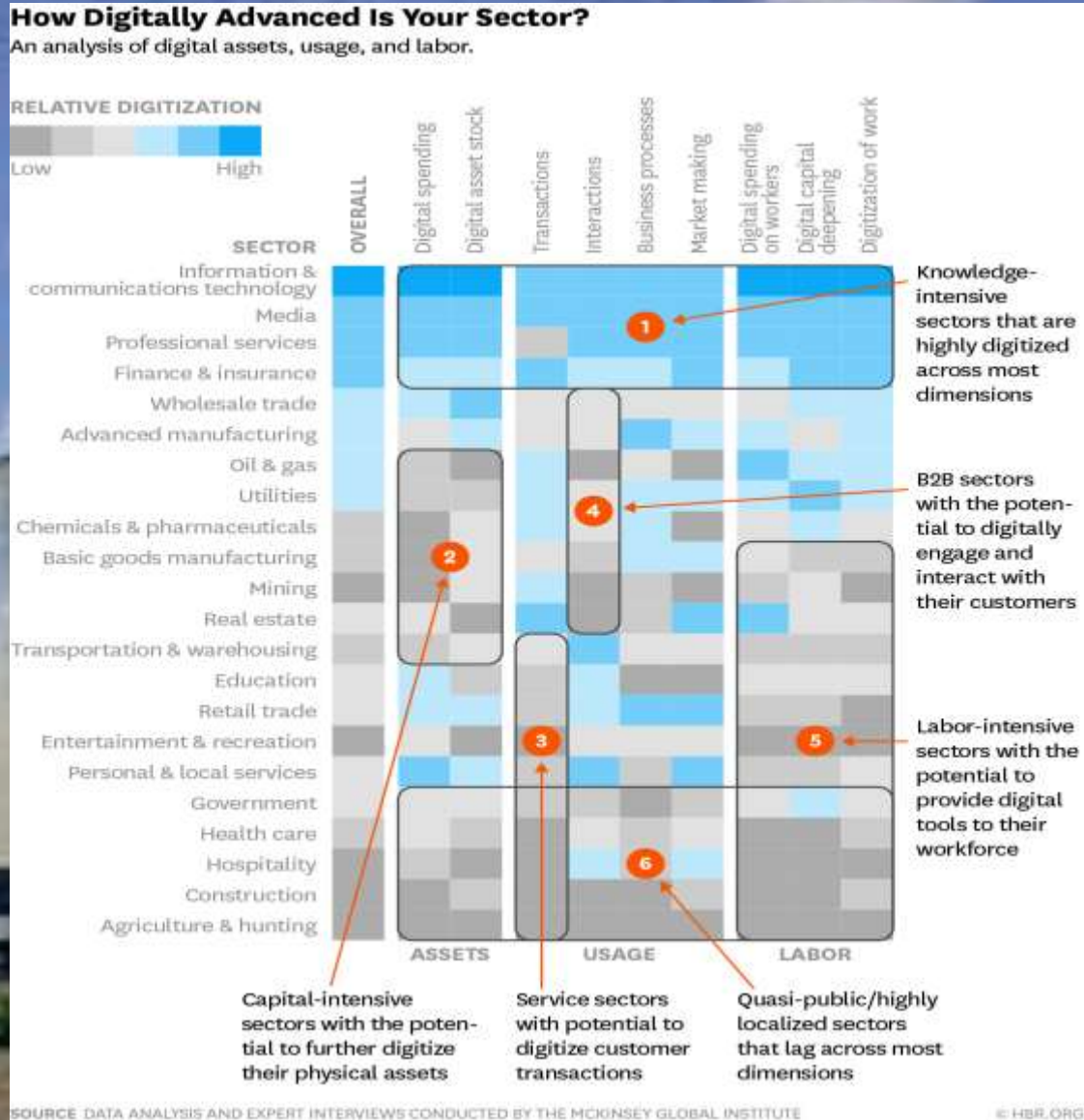
Watson IoT.



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Background...Industry Perspective



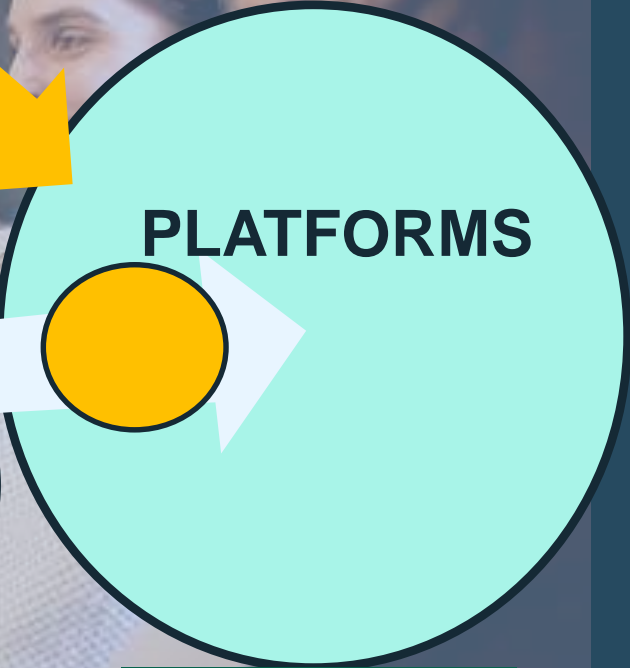
AEC Industry is transforming...

Going DIGITAL is driving the INDUSTRY to BETTER SOCIAL OUTCOMES

TOTEX

OPEX

CAPEX



DESIGN

BUILD

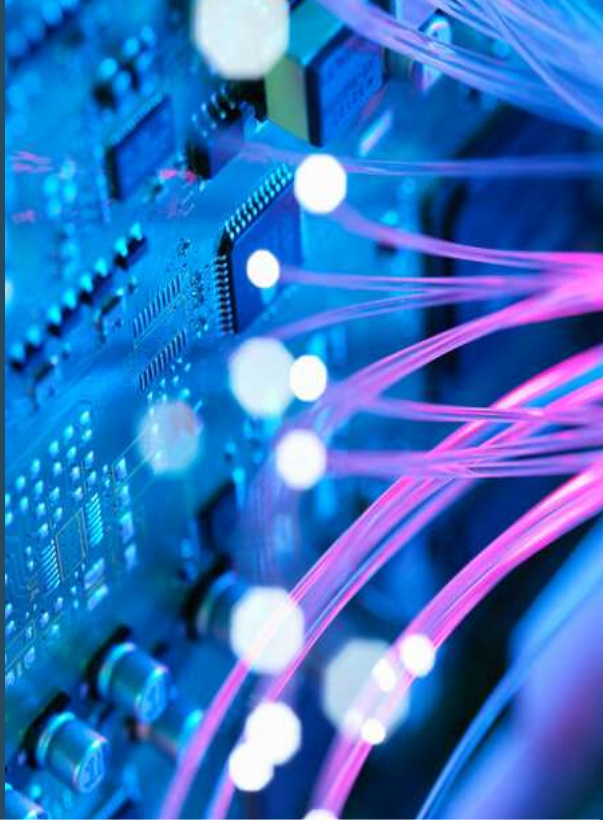
OPERATE

FUNCTION

SOCIAL VALUE

Its all about Assets....

DIGITAL



HUMAN



PHYSICAL



ACCELERATE

AUGMENT

ANALYSE

Marginal productivity gains from data

Platforms

Digital Twin

Supply Chain

Situational awareness of the human will be key

Apps that 'Learn'

Safety & Location

Gamification / Virtual Reality



Theme – Analyzing Physical

In USA over 47,000 bridges "structurally deficient."

Predictive Asset Intelligence

Manufacture & Pre-fabrication

Connecting 'unconnected'



First six companies certified by BSI to new international standard for collaborative business relationships

03 March 2017

Costain, EMCOR UK, Kier, Leidos, NATS and Network Rail are the first six UK and worldwide companies to be independently assessed by BSI and achieve certification to ISO 44001: *Collaborative business relationship management systems – requirements and frameworks*. The new international standard, which is now published, replaces BS 11000 *Collaborative Business Relationships* and provides guidance for identifying, developing and managing collaborative business relationships within or between organizations.

Example - IBM Watson helps Sund & Bælt prolong the lifespan of ageing capital infrastructure

DESIGN OPTIMISATION

USE OF AUGMENTED INTELLIGENCE

3D PRINTING ADDITIVE MANUFACTURING

MODULAR CONSTRUCTION / PREFRABRICATION

COLLABORATION

DATA SCIENCE SKILLS

