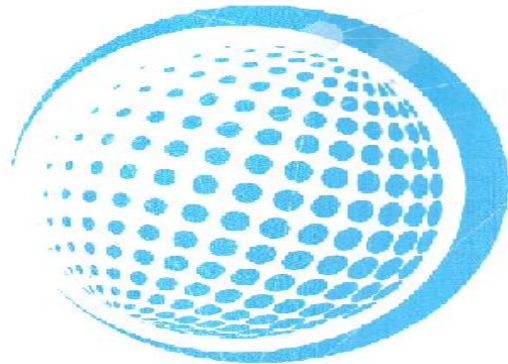


WORLD MANUFACTURING FORUM

THE FUTURE OF MANUFACTURING



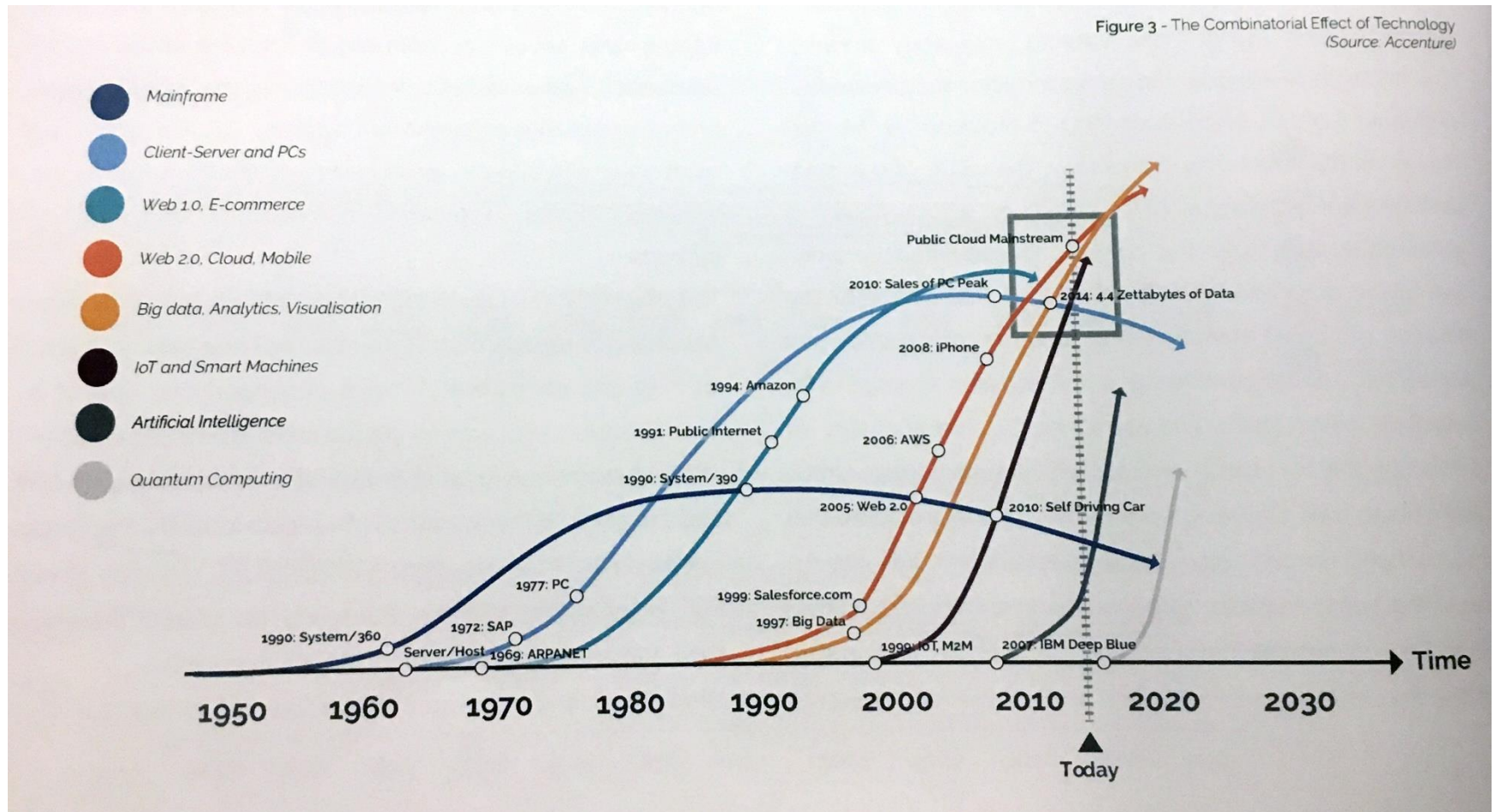
World Manufacturing Forum

WMF

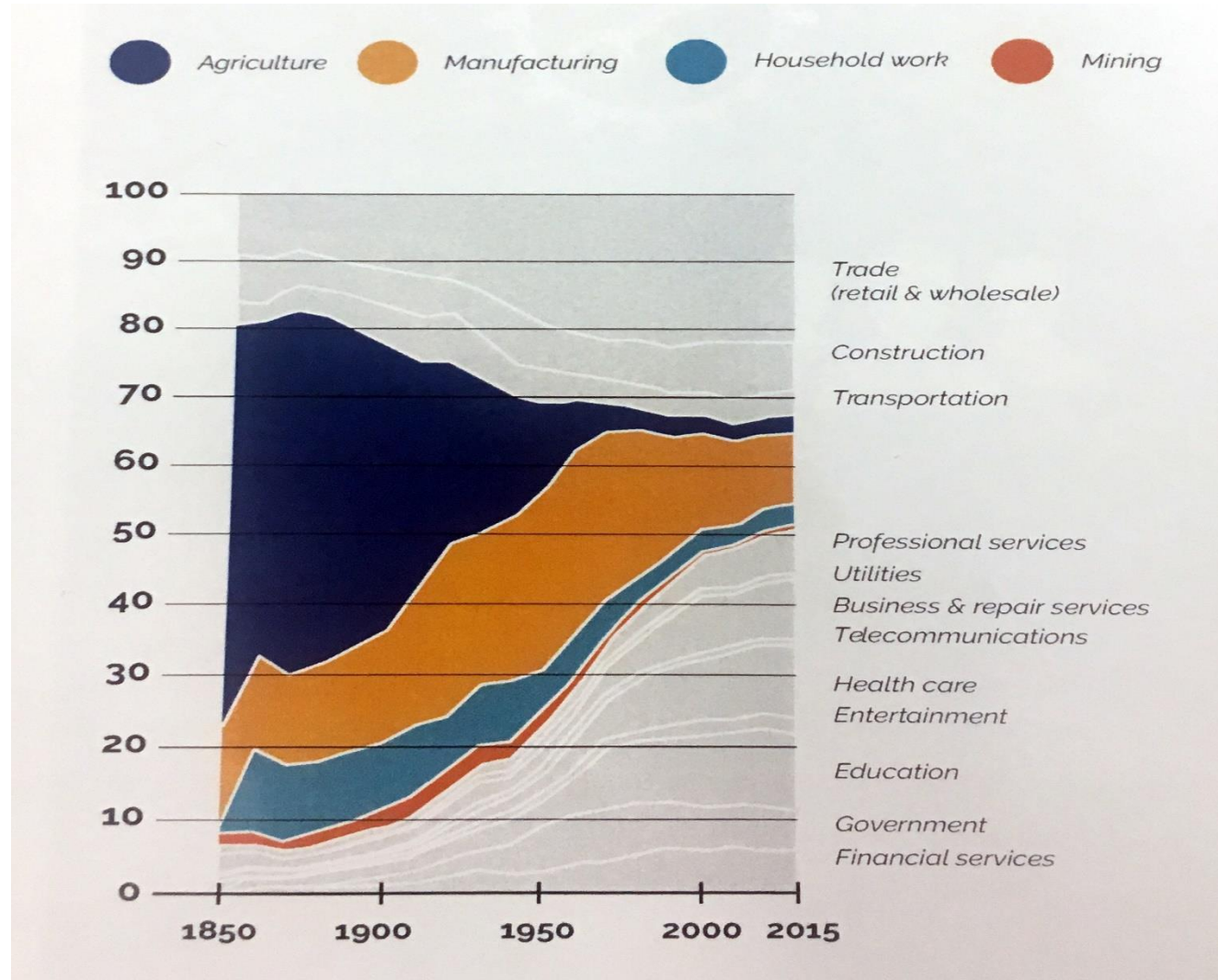
WMF

- PROGRESS DRIVEN BY EMERGING TECHNOLOGIES
- MANUFACTURING IS SPREADING WEALTH WORLDWIDE
- MANUFACTURING IS BEING TRANSFORMED BY DIGITAL TECHNOLOGIES AND IS BECOMING CONNECTED AND DATA DRIVEN
- NEEDS MORE SKILLED WORKERS FOR NEW TYPES OF JOBS

MANUFACTURING HISTORY



MANUFACTURING HISTORY



FOURTH INDUSTRIAL REVOLUTION

- TECHNOLOGY AND CONNECTIVITY
- CIRCULAR ECONOMY PARADIGM
- INCLUSION- DIVERSITY: DEMOGRAPHIC CHANGES
- CYBERSECURITY
- DEMOCRATIZING MANUFACTURING AND DESIGN

TECHNOLOGY CHALLENGES

- INTEGRATION OF:
 - INFORMATION TECHNOLOGY
 - OPERATIONAL TECHNOLOGY
 - ENGINEERING TECHNOLOGY

PERSONALIZATION AND INTERNET OF THINGS

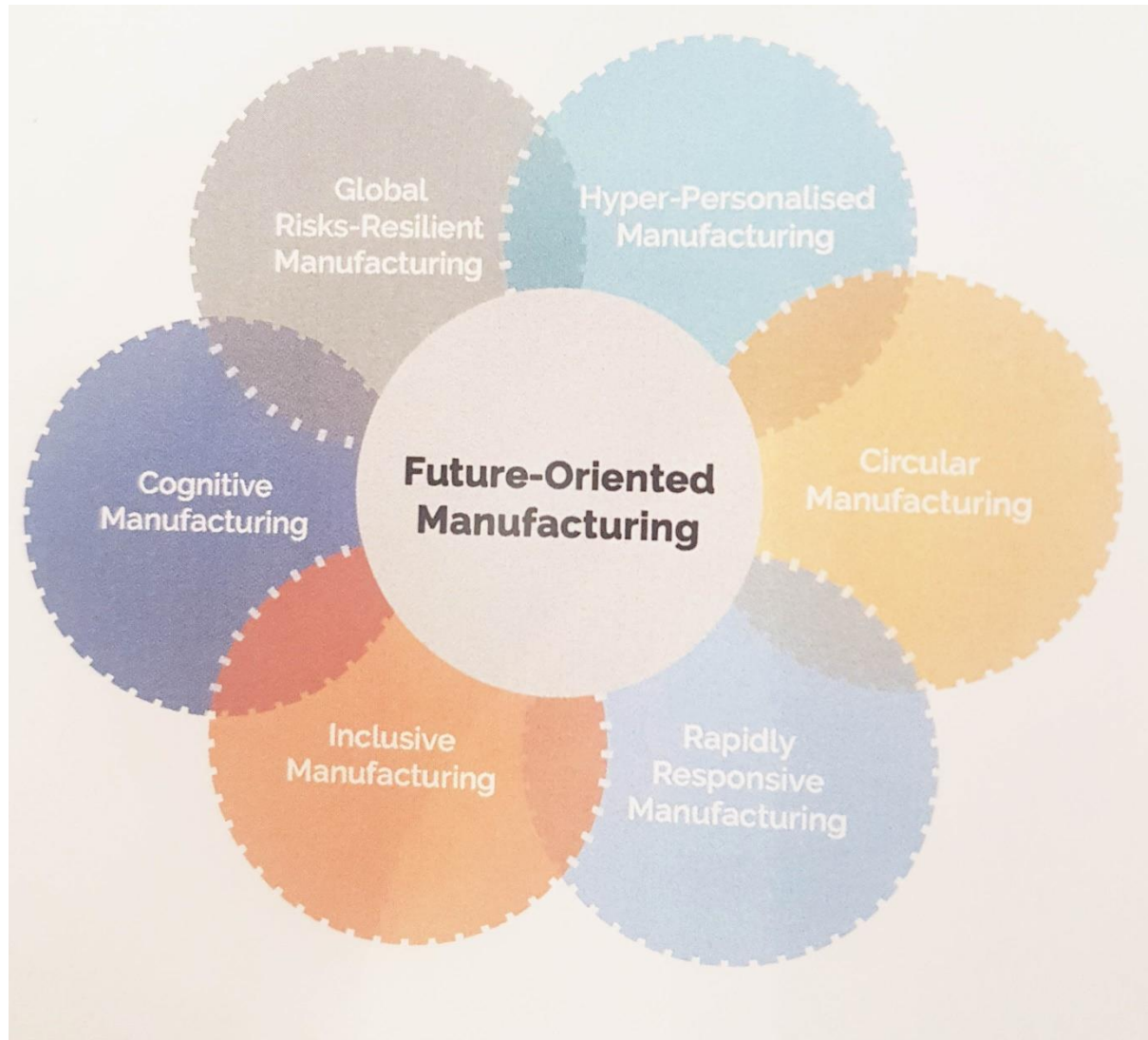
DIGITAL PRINTING

DATA DRIVEN MANUFACTURING

SMEs

DIGITAL DIVIDE

SIX DISRUPTIVE TRENDS FOR THE FUTURE OF MANUFACTURING



RECOMMENDATIONS

- CULTIVATE A POSITIVE PERCEPTION OF MANUFACTURING
- PROMOTE EDUCATION AND SKILL DEVELOPMENT FOR SOCIETAL WELL BEING
- DEVELOP EFFECTIVE POLICIES TO SUPPORT GLOBAL BUSINESS INITIATIVES
- STRENGTHEN AND EXPAND INFRASTRUCTURE TO ENABLE FUTURE ORIENTED MANUFACTURING
- ENCOURAGE ECO SYSTEM FOR MANUFACTURING INNOVATION WORLDWIDE

RECOMMENDATIONS

- CREATE ATTRACTIVE WORK PLACES FOR ALL
- DESIGN AND PRODUCE SOCIALLY ORIENTED PRODUCTS
- ASSIST SME's WITH DIGITAL TRANSFORMATION
- EXPLORE THE REAL VALUE OF DATA DRIVEN COGNITIVE MANUFACTURING
- PROMOTE RESOURCE EFFICIENCY AND COUNTRY SPECIFIC ENVIRONMENTAL POLICIES