



Circular Economy as a driver for Servitisation

Pekka Tiitinen, Managing Director, ABB Oy

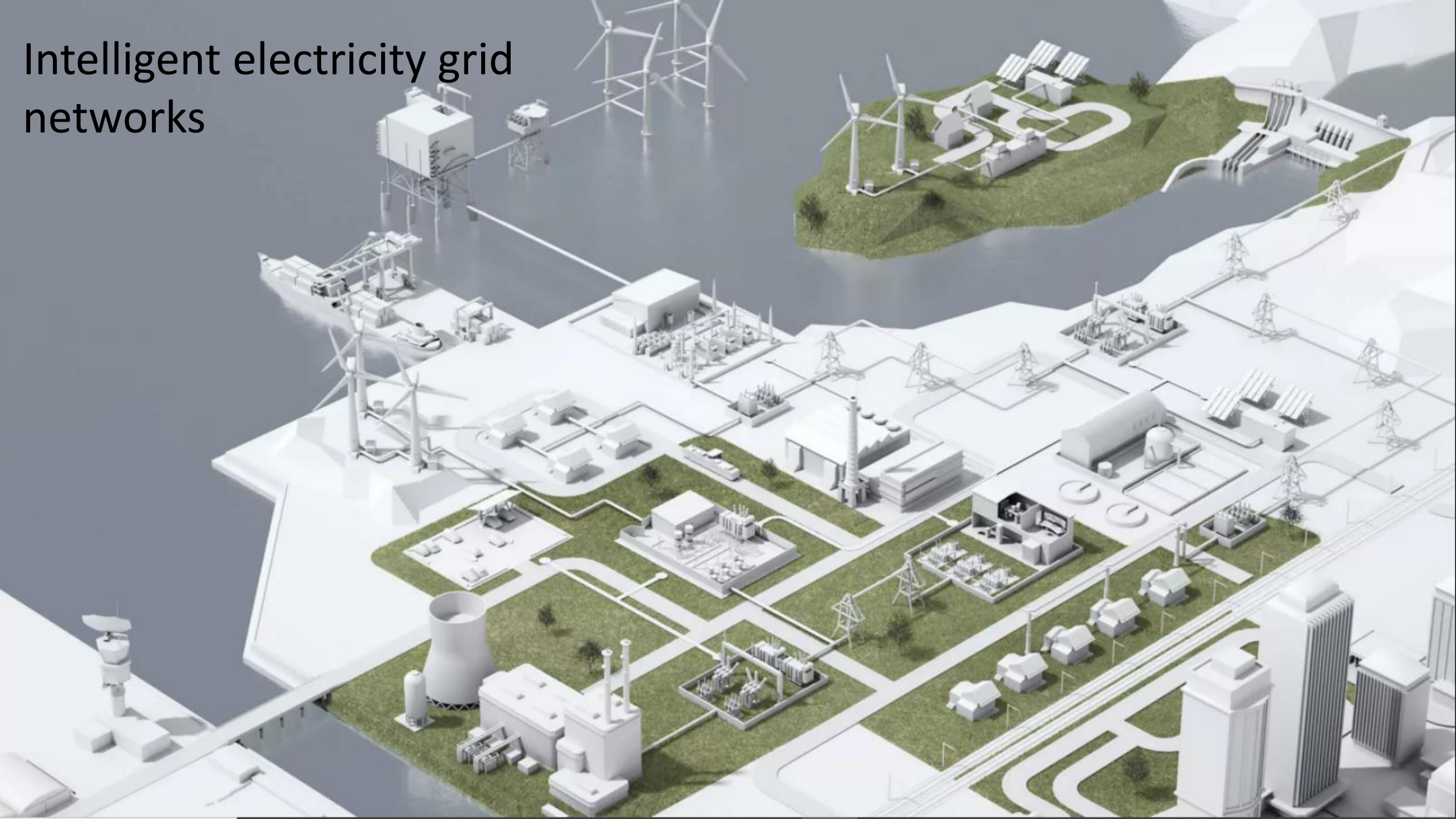
Manufacturing Performance Days 2023, Tampere, 6.6.2023



MANUFACTURING
PERFORMANCE
DAYS

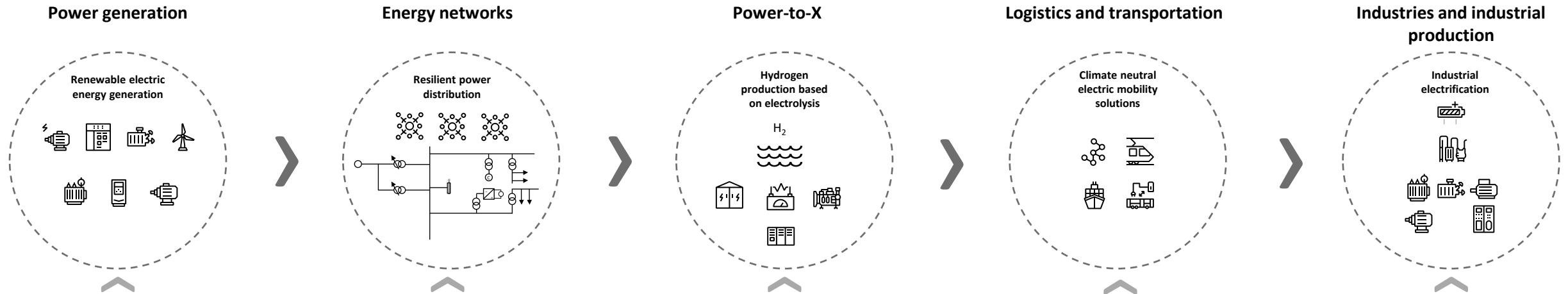


Intelligent electricity grid networks

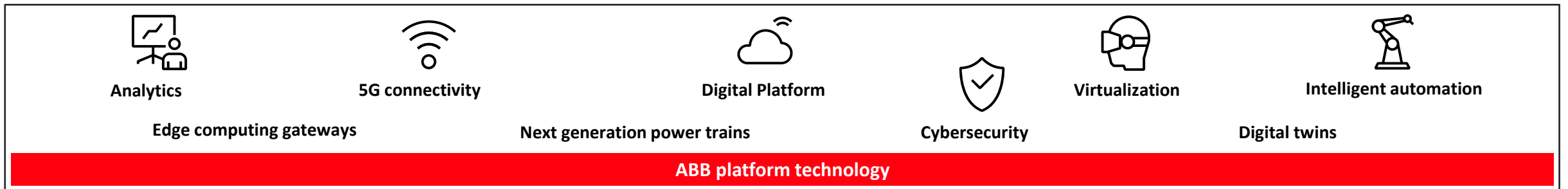


Sustainable and competitive solutions with innovation ecosystem

Optimizing system-level energy efficiency and reliability

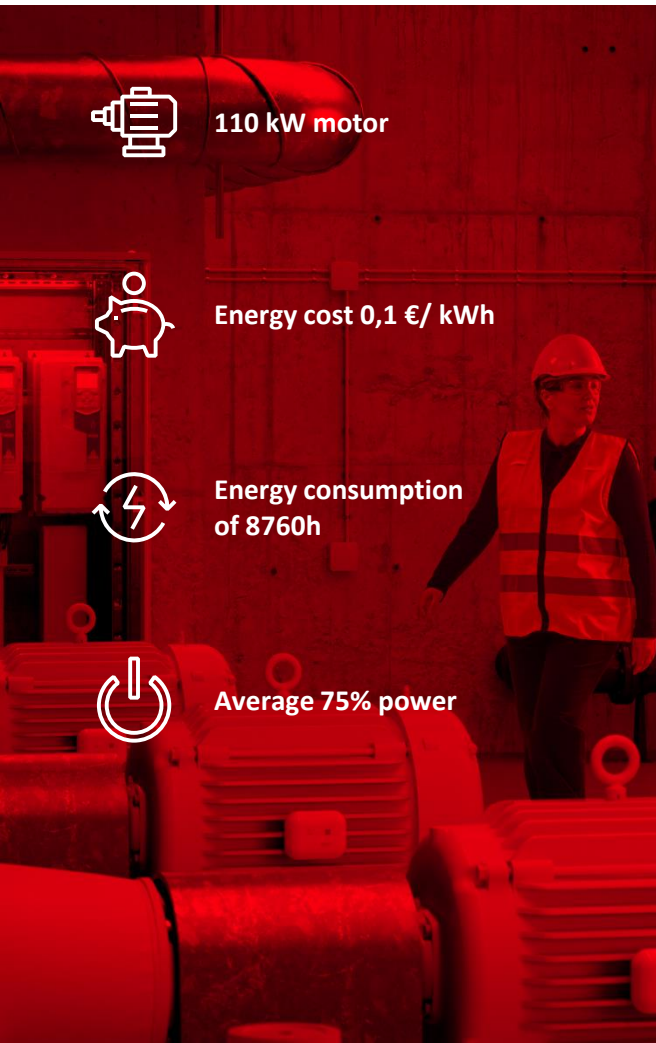


Solutions and services of ecosystem partners




IE5 SynRM motor + drive package vs IE3 package

Energy cost: 30 year operation = 3MEUR, with control and high efficiency over 500kEUR saving



 110 kW motor

 Energy cost 0,1 €/ kWh

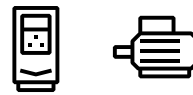
 Energy consumption of 8760h

 Average 75% power

IE5



13500 €



Nominal package efficiency **94,8%**



Energy consumed
762 MWh
76234 €

↑ ~ 17%

↑ ~ 3%

↓ ~ 3%

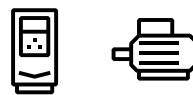
Annual saving in energy
~2200€

↑ Incremental investment with an estimated ROI
~1 year

IE3



11500 €



Nominal package efficiency **92,1%**



Energy consumed
784 MWh
78432 €

ABB