

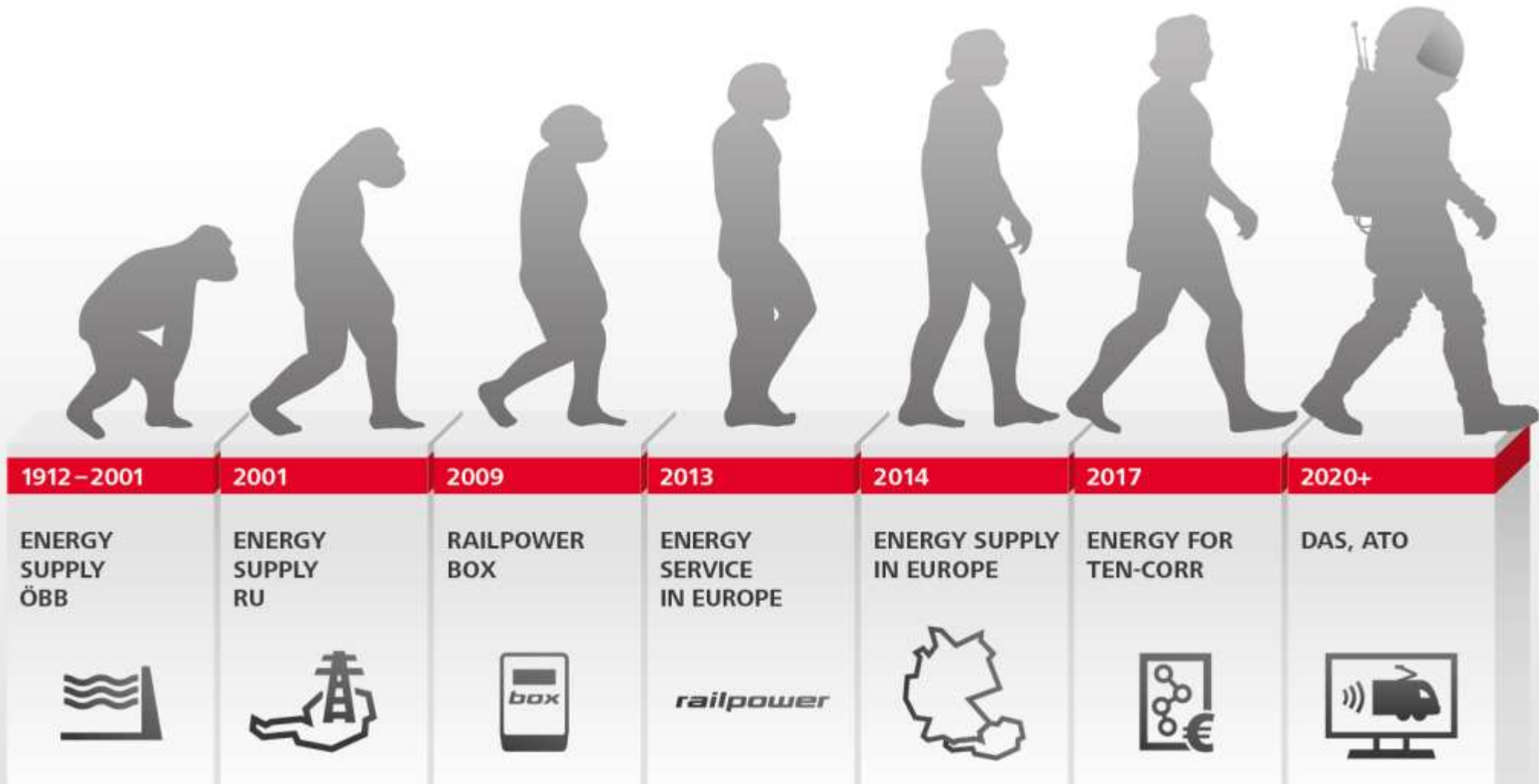
One single railway energy market „The practice case...“

ERESS Forum 2016, Madrid

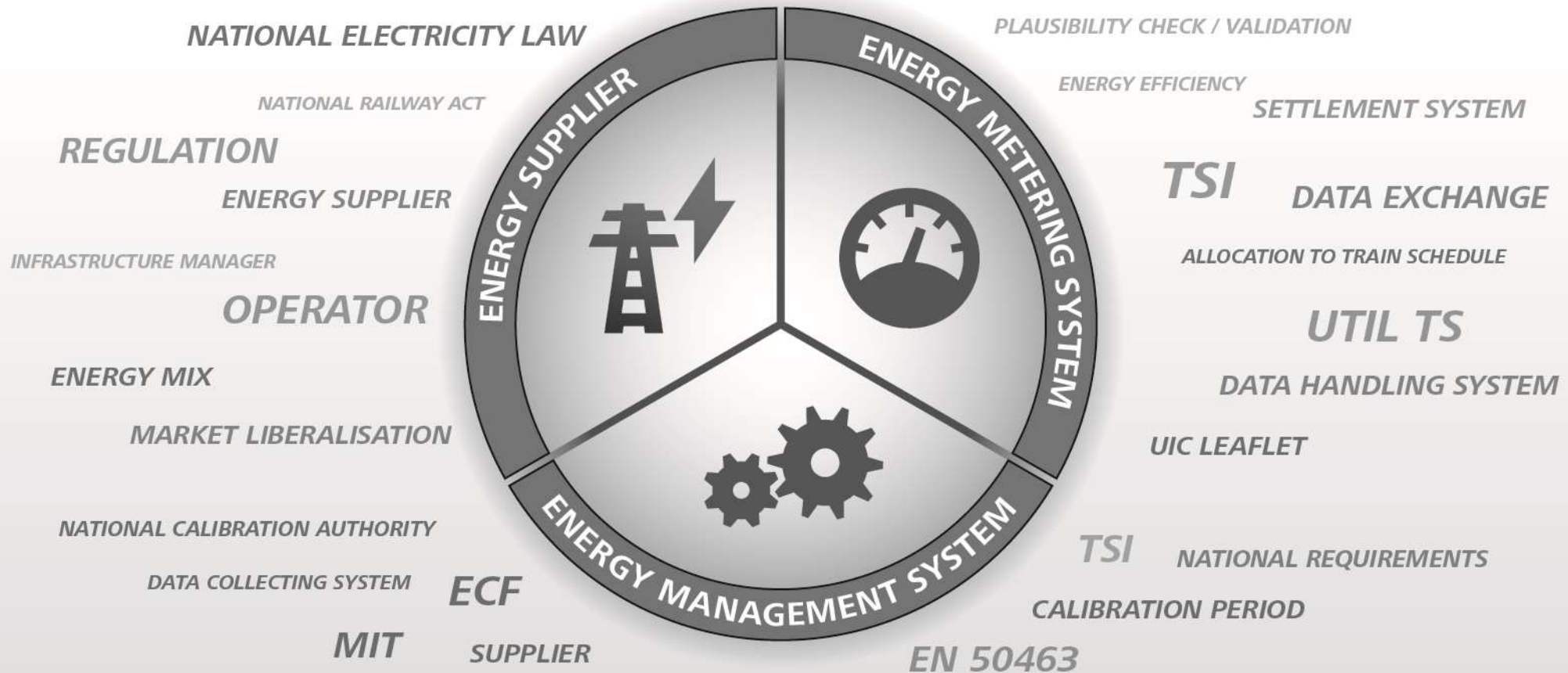
ÖBB-Infrastruktur AG / Business Unit Railway Systems
Harald Jony



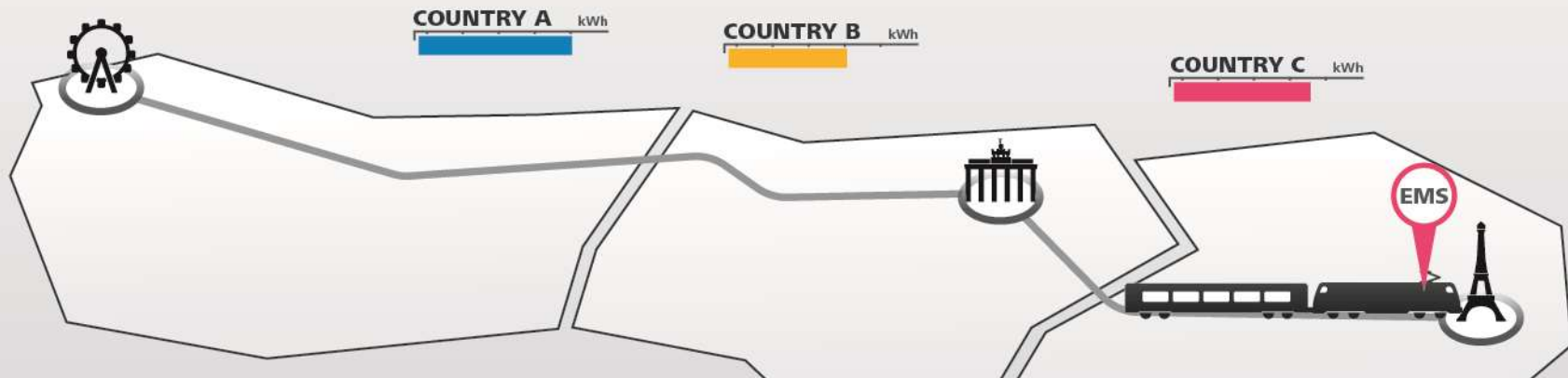
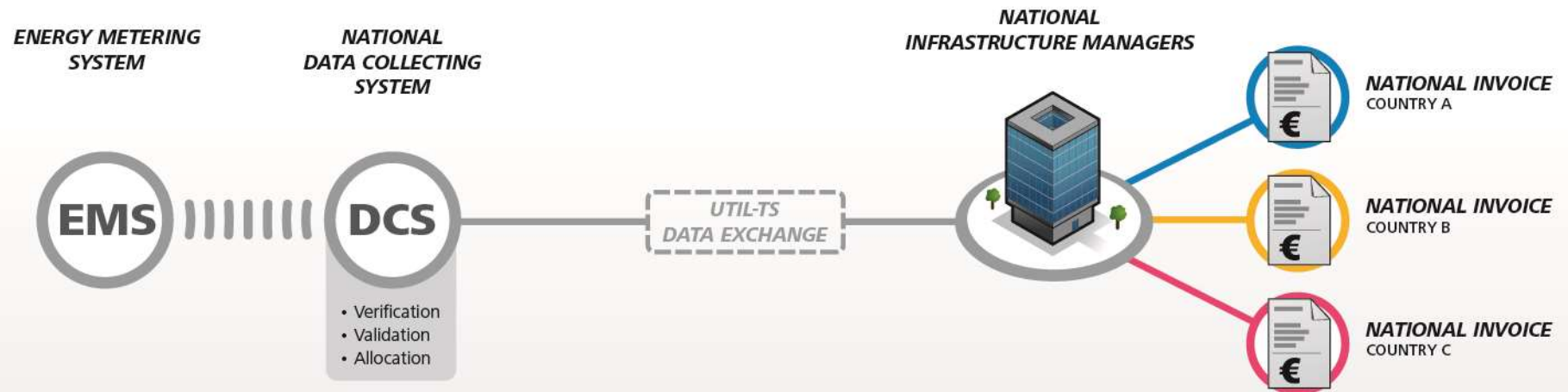
Evolution of Innovation



Bricks for Traction Power Supply

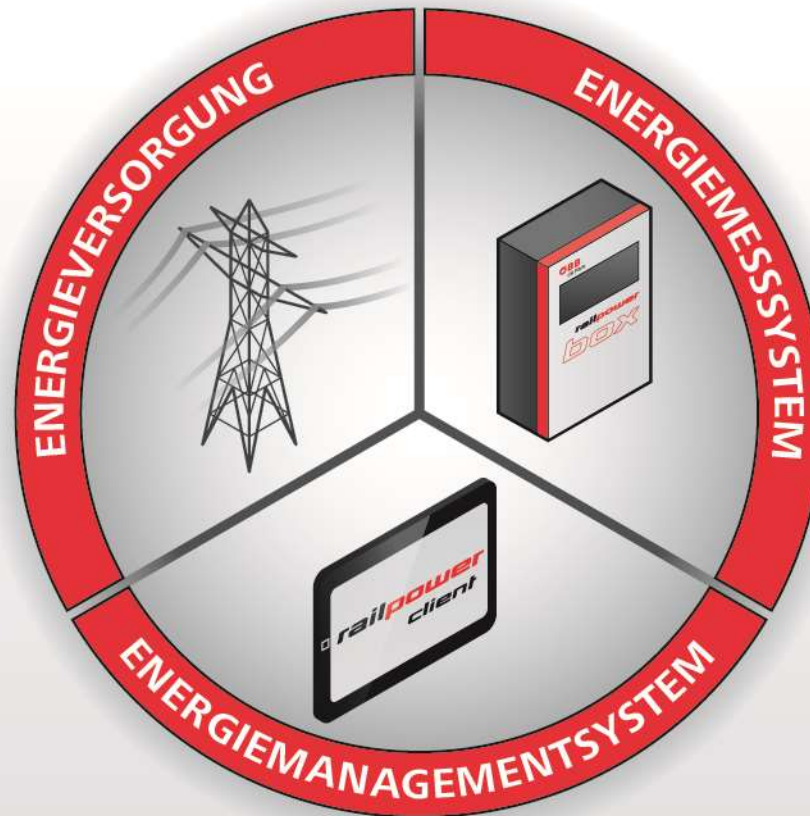


No single railway energy market in Europe

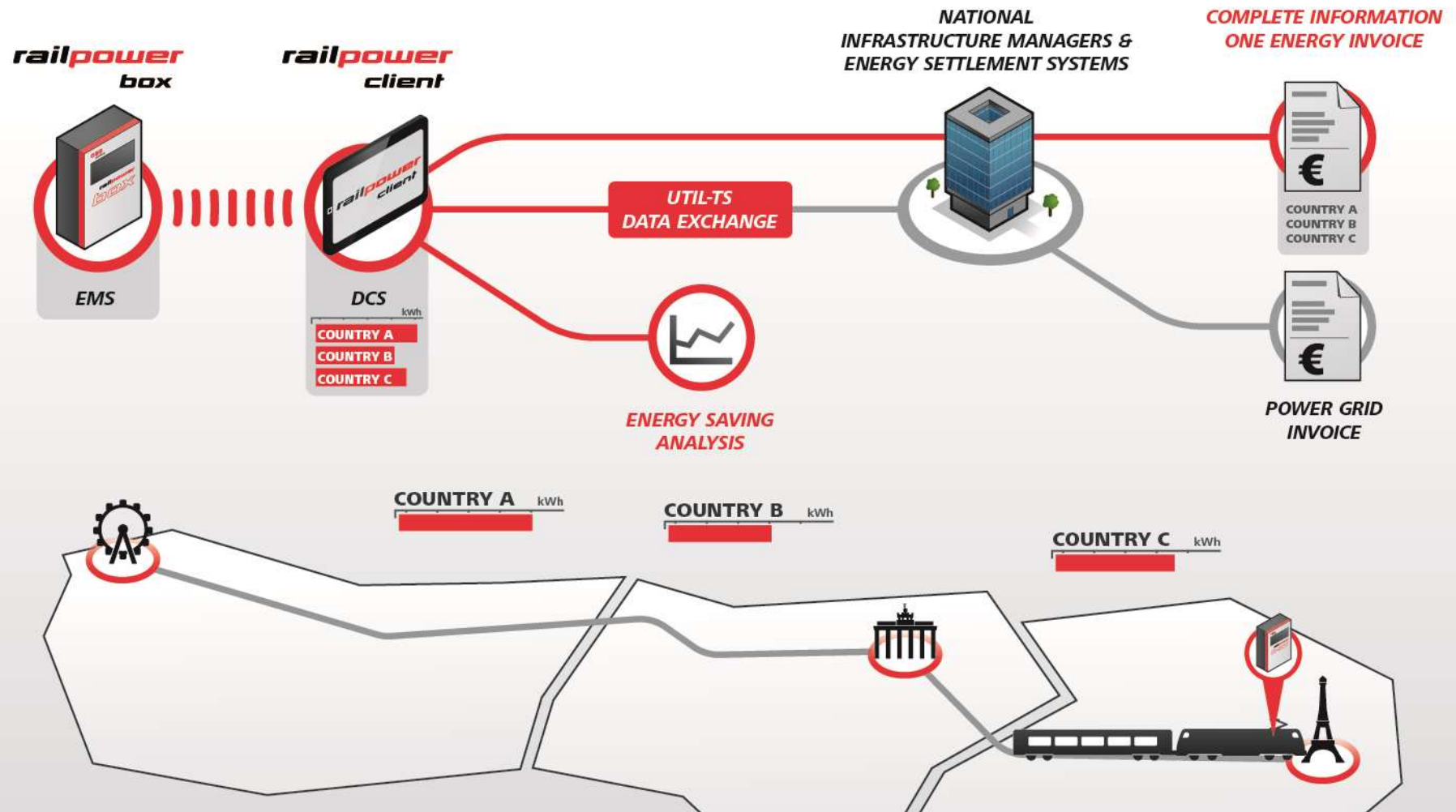


Bricks of railpower

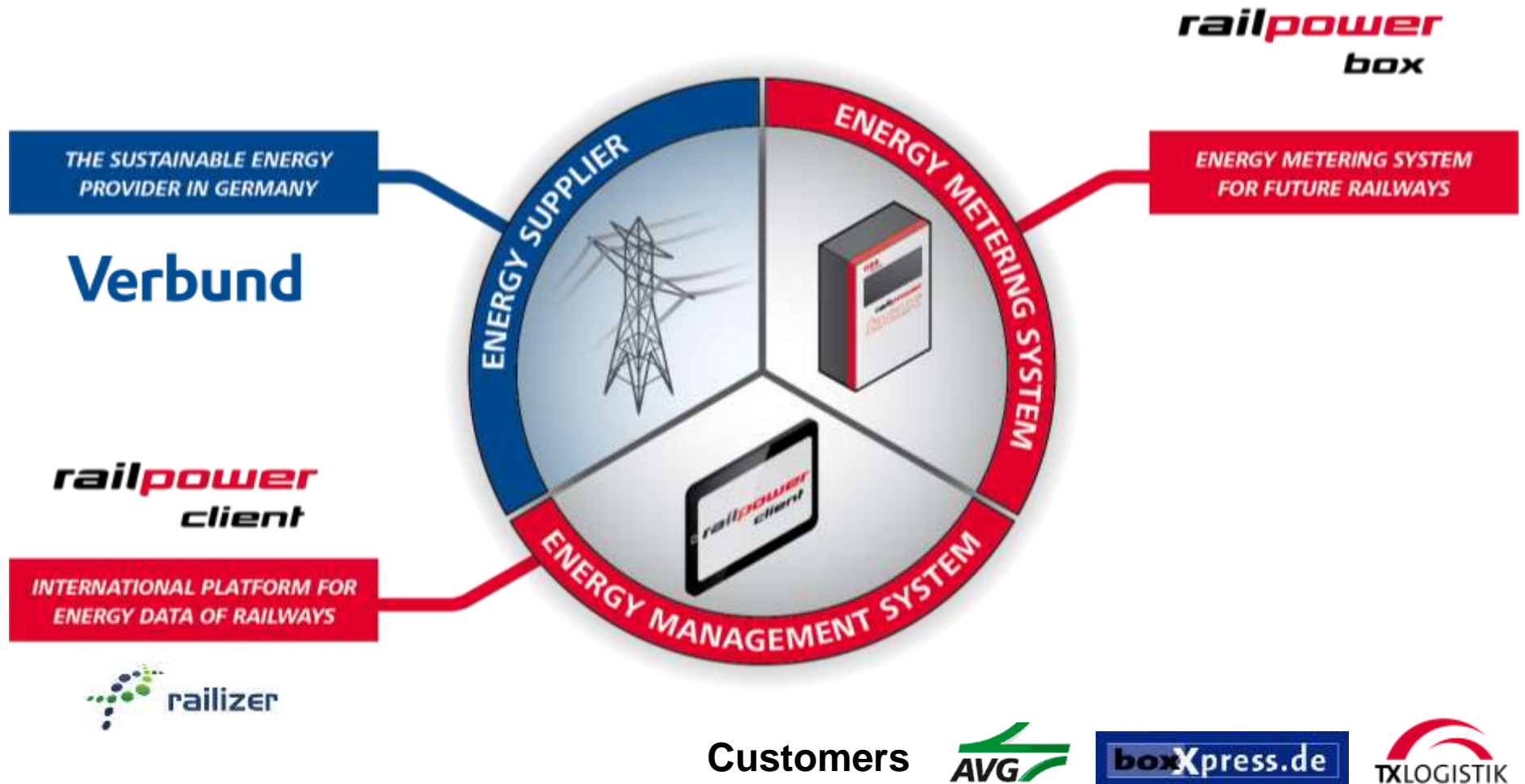
railpower



One single railway energy market in Europe ...

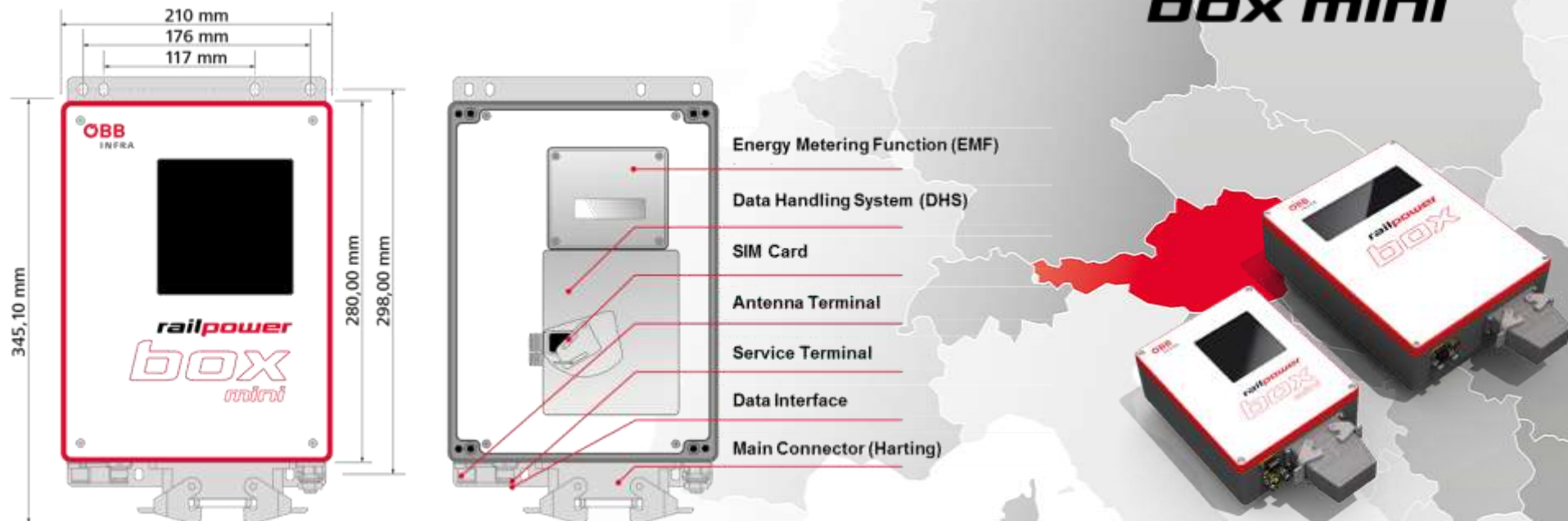


Traction Power Supply Germany



Energy metering for future railways

- **Energy meter system with 2 load profiles and connection to the driver or other systems on board**
 - Account load profile in 5 minutes
 - Energy Saving load profile in seconds



Advantage of one single railway energy market in Europe

CONVENTIONAL TRACTION POWER



1.000 €

railpower



10% ENERGY EFFICIENCY



7% PRICE

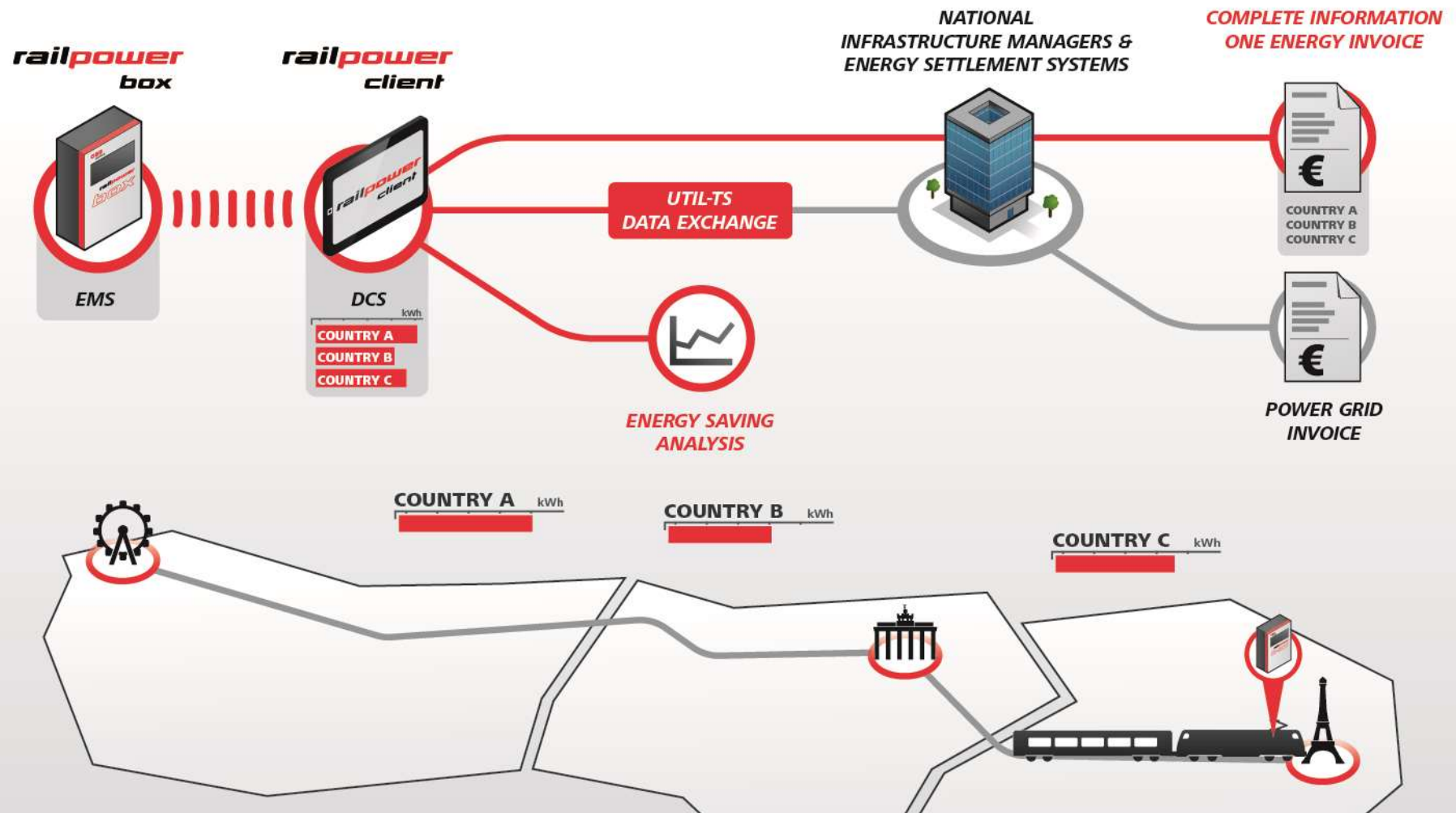


**10% RESSOURCE &
DATA MANAGEMENT**

730 €

27% SAVINGS

One single railway energy market in Europe ...



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