

(R)evolution of large electrical grids

Patrick PANCIATICI
Scientific Advisor

Rte

Réseau de transport d'électricité

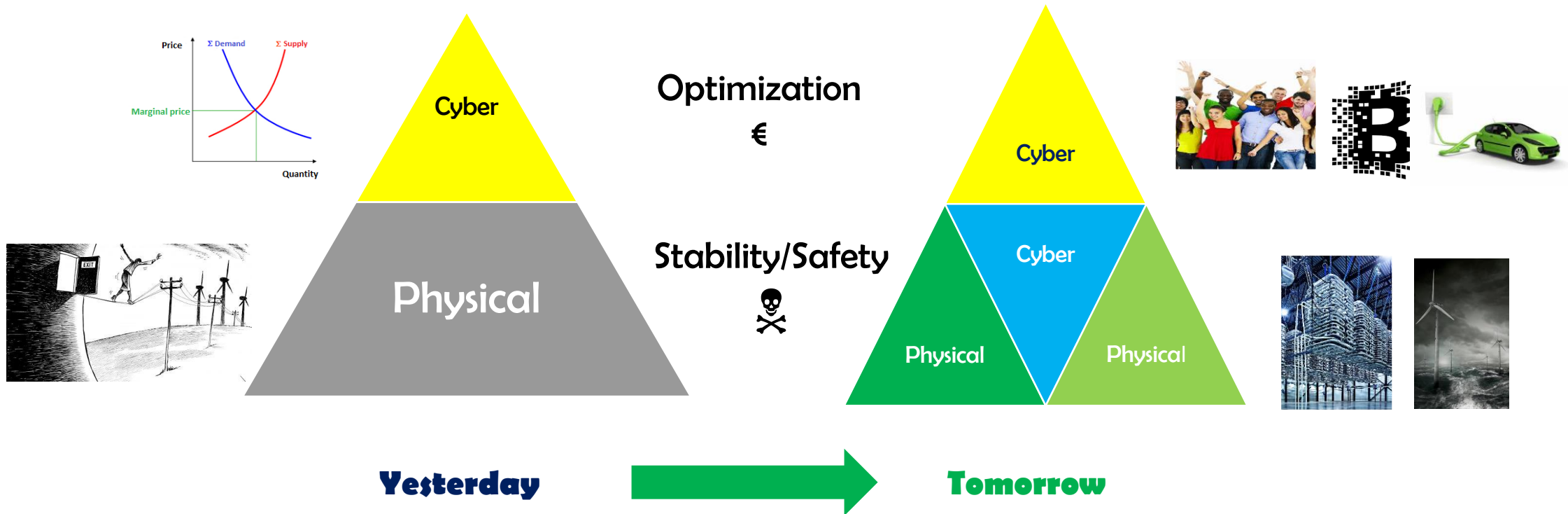
Large power systems are the most complex machines ever built by mankind

National Academy of Engineering in USA: <http://www.greatachievements.org/?id=2949>

(R)evolution of Large Electrical Systems

Digital transformation for The Energy Transition: *Cyber Physical System of Systems*

Energy Transition pushes towards more dispersed generation and distributed controls:
management of large population of agents/devices with partial autonomy



100% renewable energy for electricity is technically possible taking advantage of “well designed” digital solutions