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Comissió Indústria 4.0

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BARCELONA INDUSTRY Week

Tendències en l'àmbit de la IoT



III FÒRUM INDÚSTRIA 4.0

Divendres, 1 de juny del 2018

Espai Endesa - Barcelona

Sr. Xavier Pi

Grup de Treball de la IoT- Electrònica embedded

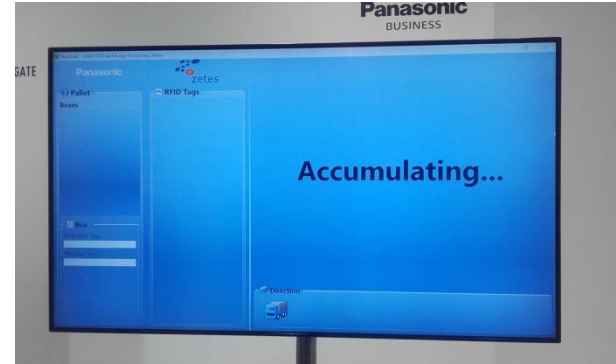
III Fòrum Indústria 4.0

Tendències en l'àmbit de la *Internet de les coses* (IoT)

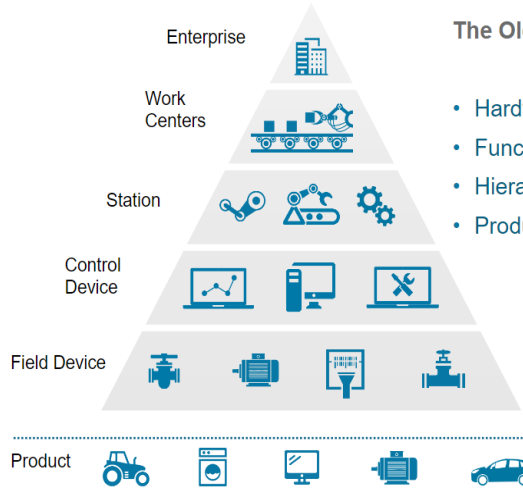
Xavier Pi

Grup de treball d'IoT i Embedded Systems – Comissió Indústria 4.0

Logistics 4.0 amb *Embedded Systems* (Smart Pallets)



De 3.0 a 4.0



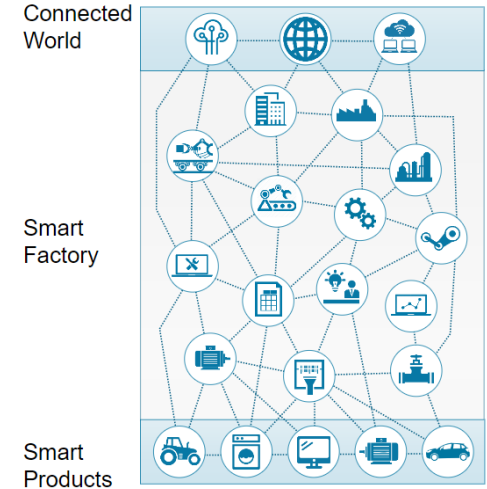
The Old World: Industrie 3.0

- Hardware-based structure
- Functions are bound to hardware
- Hierarchy-based communication
- Product is isolated

The New World: Industrie 4.0

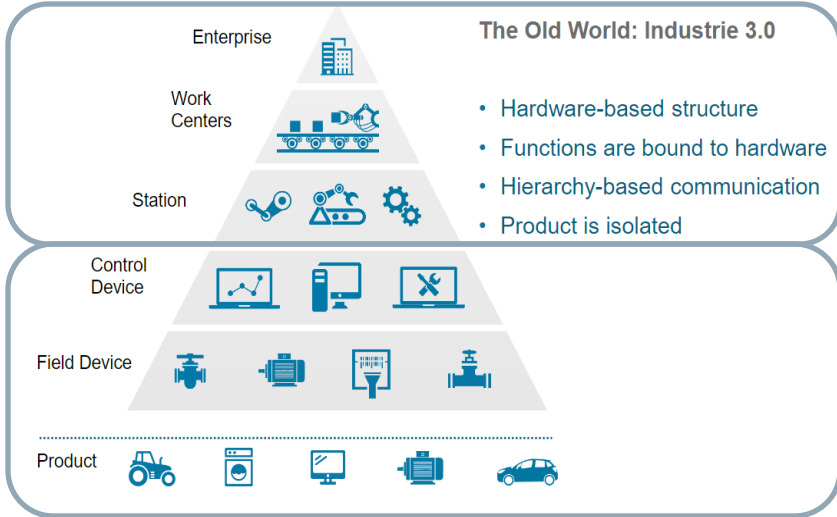
- Flexible systems and machines
- Functions are distributed throughout the network
- Participants interact across hierarchy levels
- Communication among all participants
- Product is part of the network

Graphics © Anna Salari, designed by freepik



Martin Hankel, MTC, 15.11.2016

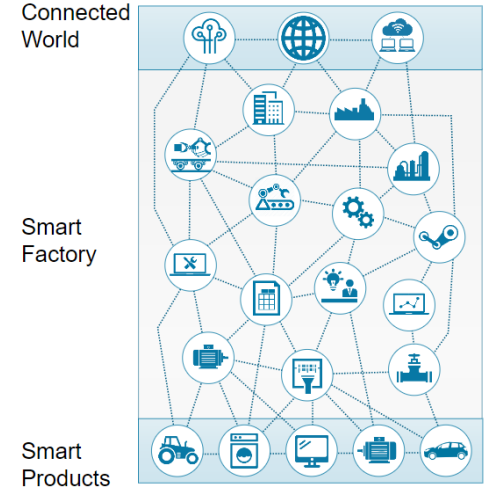
De 3.0 a 4.0



The New World: Industrie 4.0

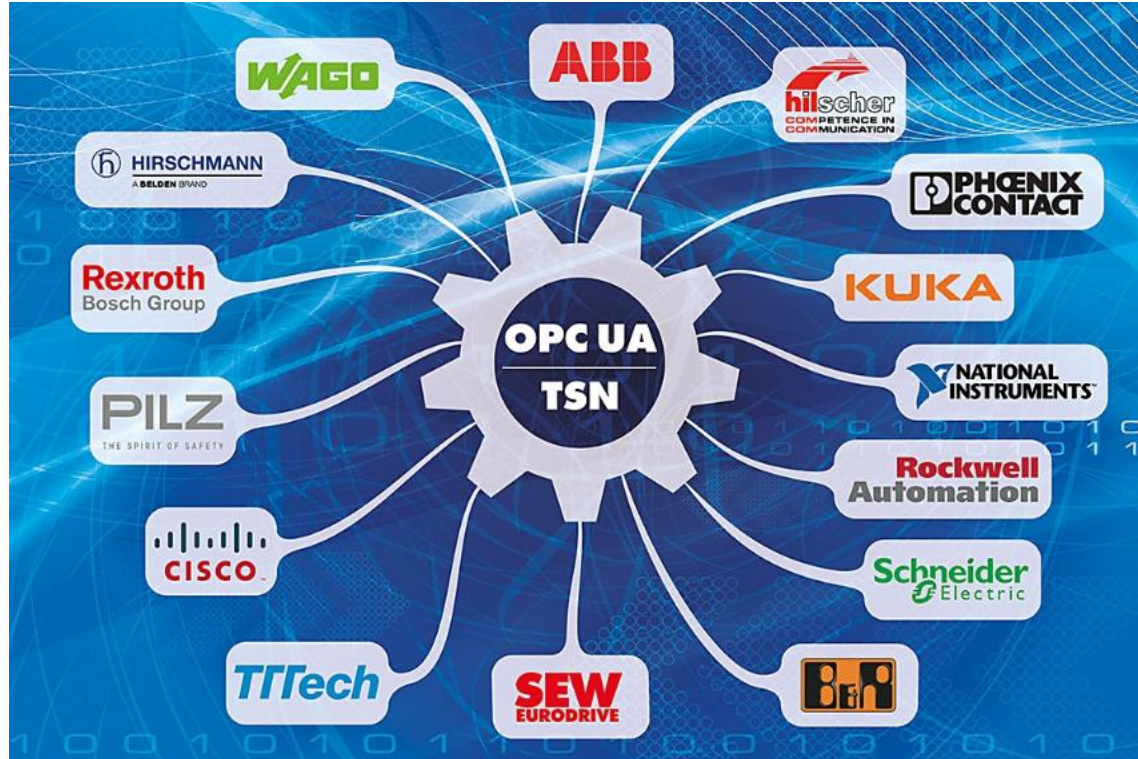
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Graphics © Anna Salari, designed by freepik



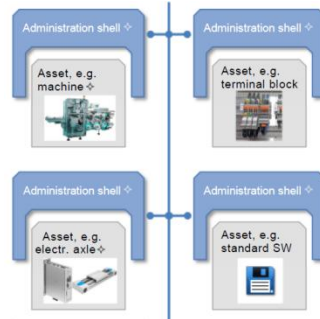
Martin Hankel, MTC, 15.11.2016

Suport de la Indústria *(Device to device & device to cloud Initiative)*



Avnu, IEEE, IIC, LNI 4.0 and OPC Foundation

Iniciatives obertes



Reference architecture model industry 4.0
(RAMI4.0)





PREMIERE

SES-LS1012A (Grapeboard)

Smallest, Most Advanced and Secure (I)IoT and Edge Computing Device

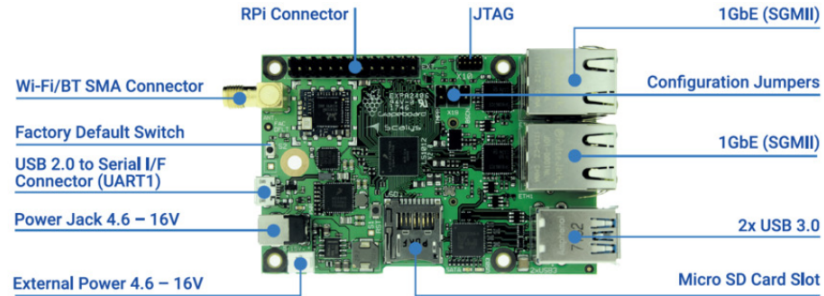


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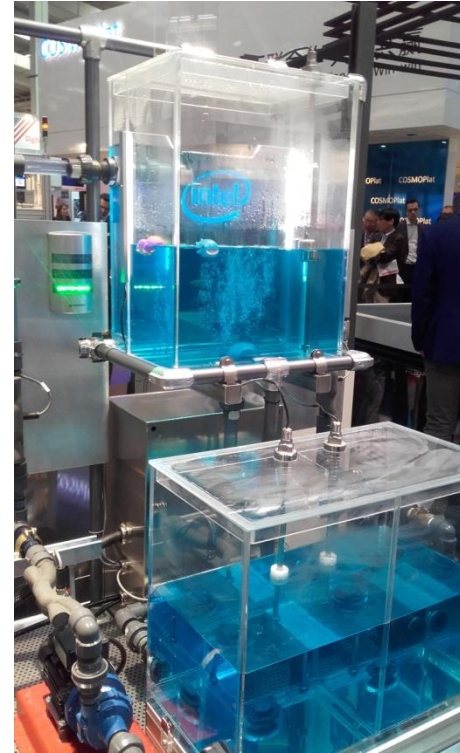
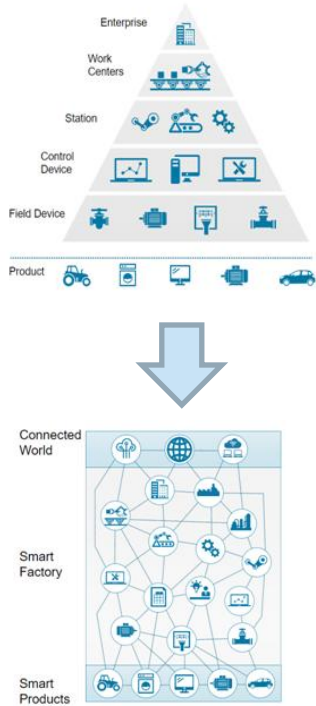
Xarxes sensibles en temps real (TSN)



Xarxes sensibles en temps real (TSN)



Prova de concepte: Distribució extrema



Convergència IT/OT

