



IAPH World Ports Conference 2015

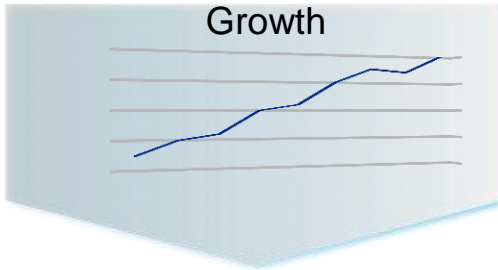
smartPORT Valencia Challenges, Solutions and Visions

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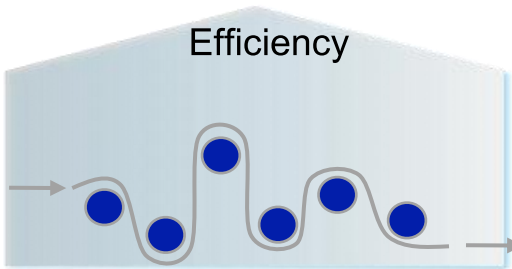
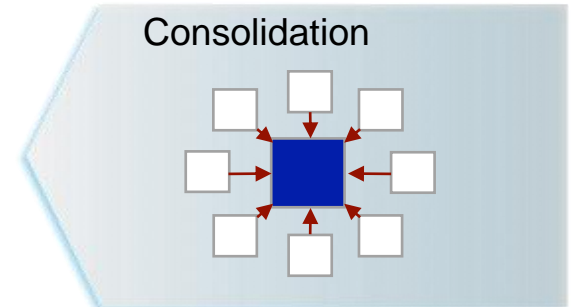
Challenges for Ports



IAPH HAMBURG 2015
29th WORLD PORTS CONFERENCE



Challenges for Ports



Challenges for ports



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Growth

International commerce grows twice as fast as the GDP. Globalization needs maritime transport



Security

Container Security is now a legal and commercial must for Maritime Transport. But players don't want to pay for it.

Challenges for Ports

Consolidation

Less Sea carriers doing much more business. Bigger vessels calling less Ports.



Efficiency

Modern logistic chains are requiring high level of efficiency in each and every step. Ports are no more isolated players.



What are we talking about?



- The SMARTXXXX (city, port ...anything) is related to „Information Management Automatization“
- First:
 - What do we want to Smartize?
 - Who is going to be the User?
 - Which kind of information shall we offer, analyse, transform, present...?

We have diverse sources of information in Ports ...

Sensors
(IoT)

Terminals'
TOSs

PMS

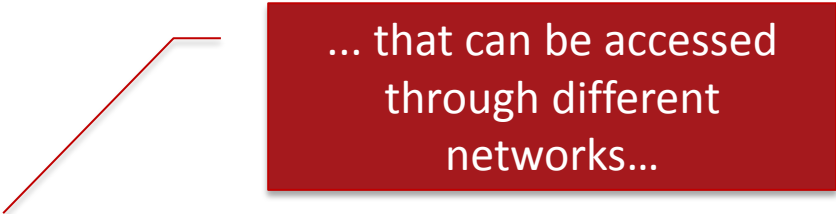
PCS

Logistics

City

Road &
Rail
Traffic

Hinter &
Fore-
land



... that can be accessed
through different
networks...

Networks (Internet, Wi-fi, GSM (2G, 3G, 4G), LANs, Wi-Max...)

Sensors
(IoT)

Termi-
nals'
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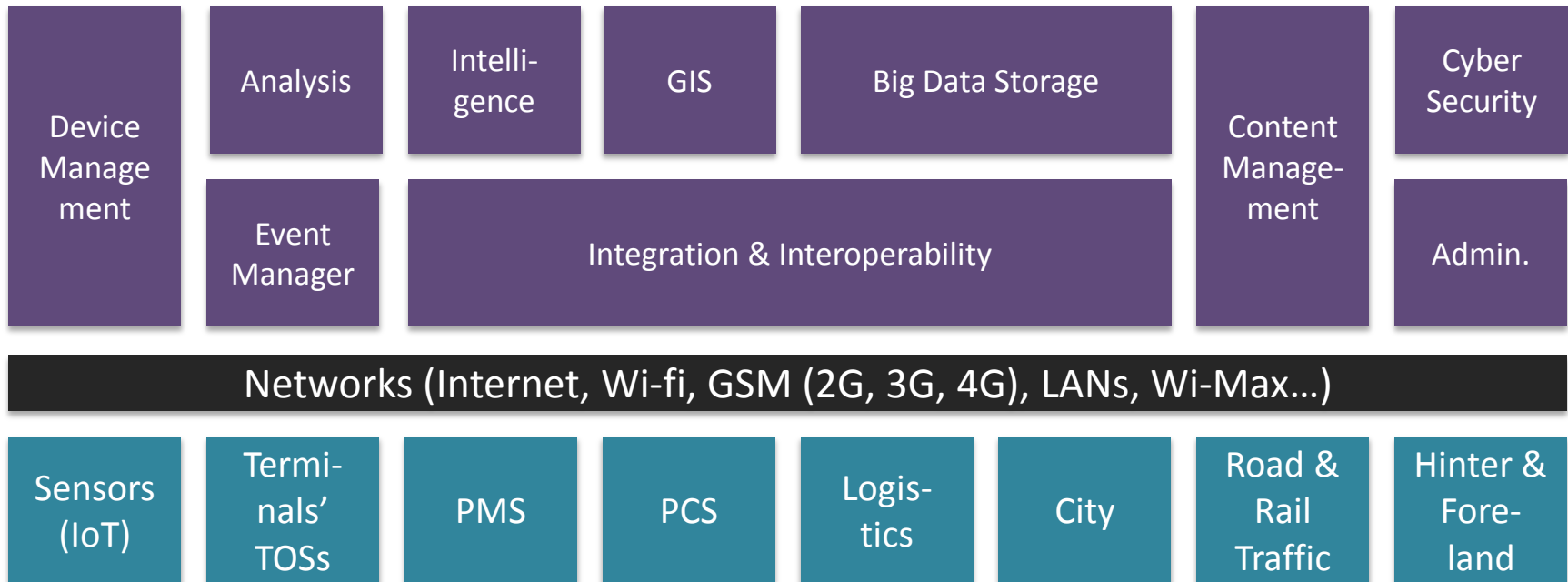
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tics

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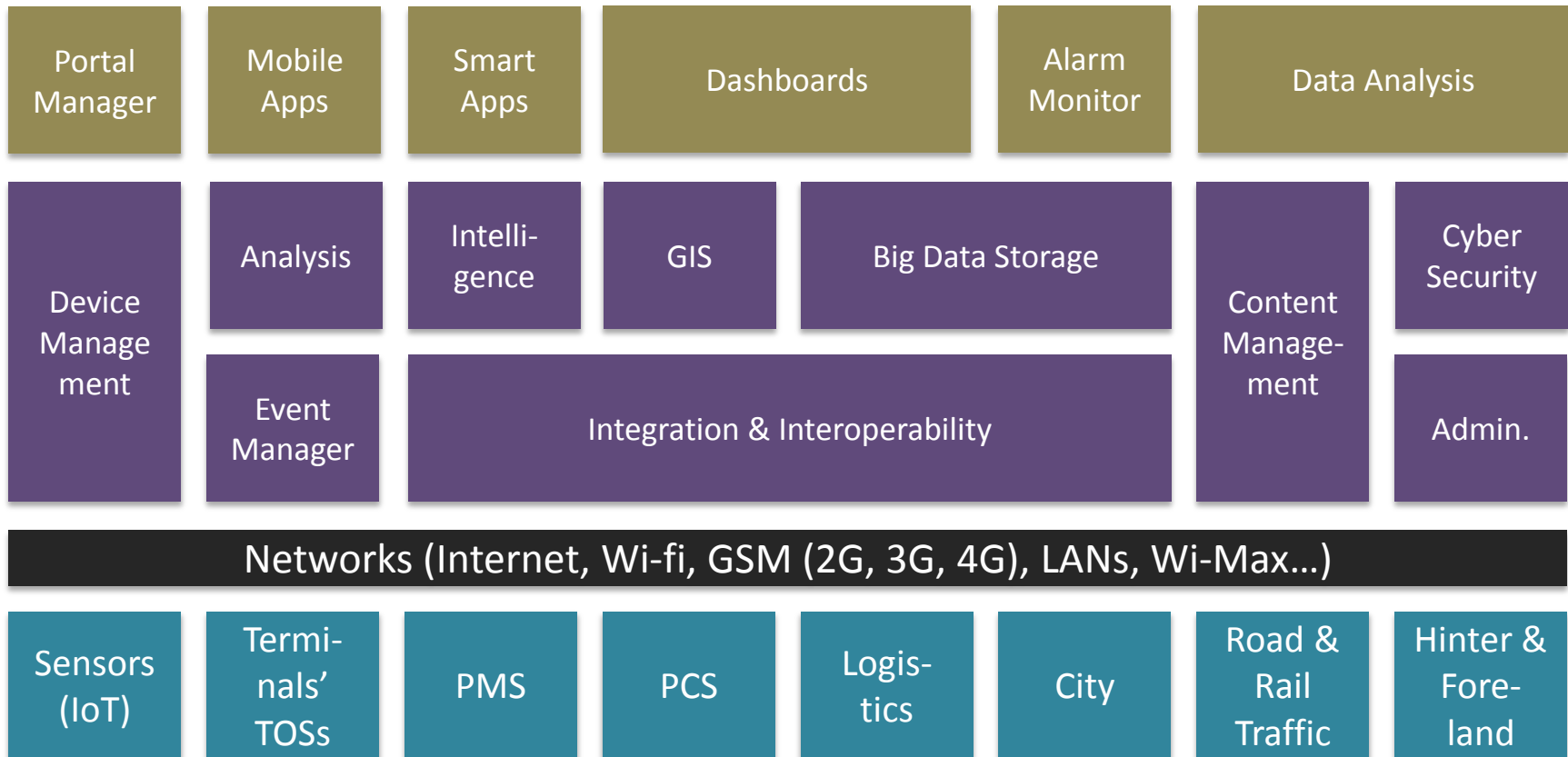
Hinter &
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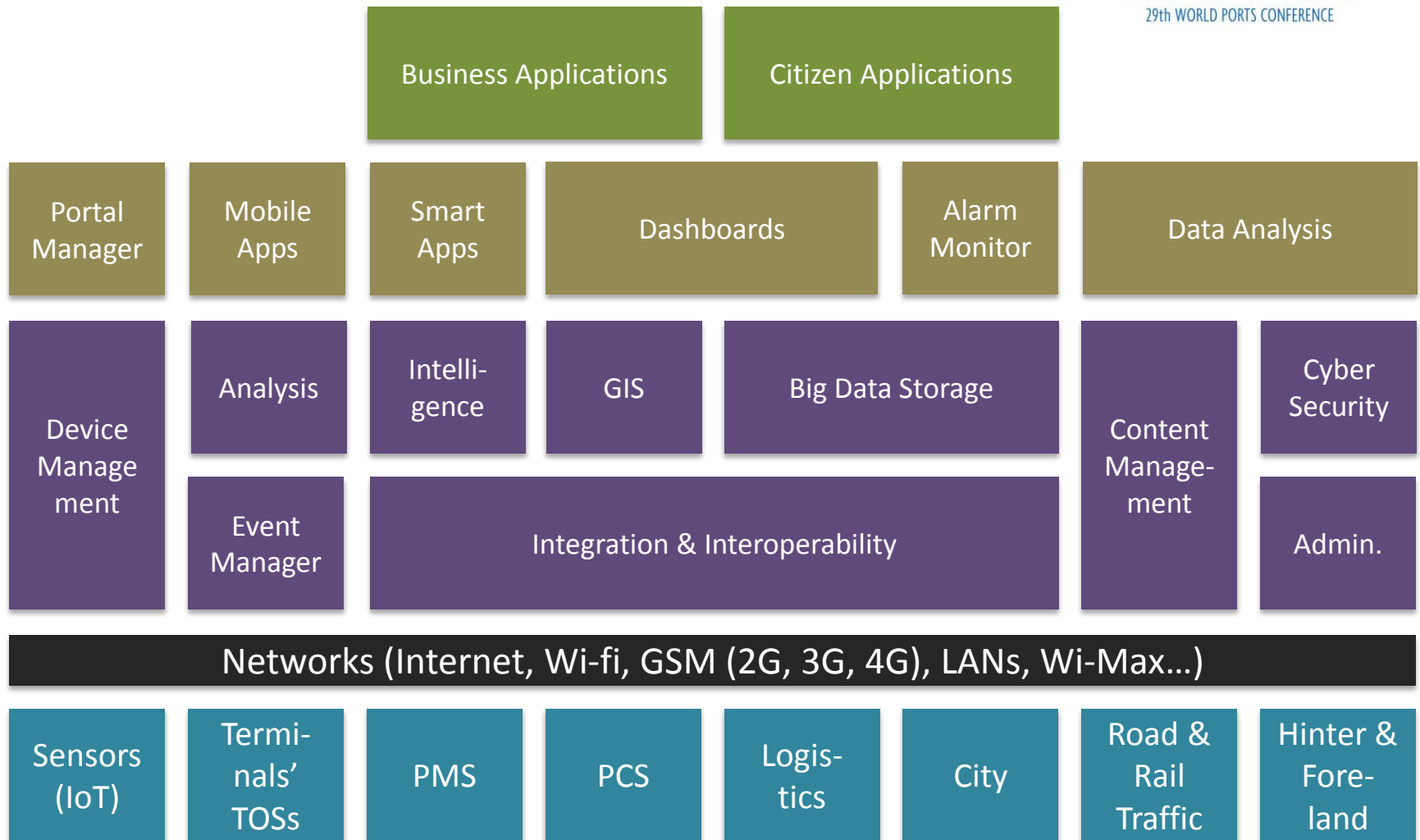
... we need SW intelligence in order to process all these heterogeneous pieces of information...

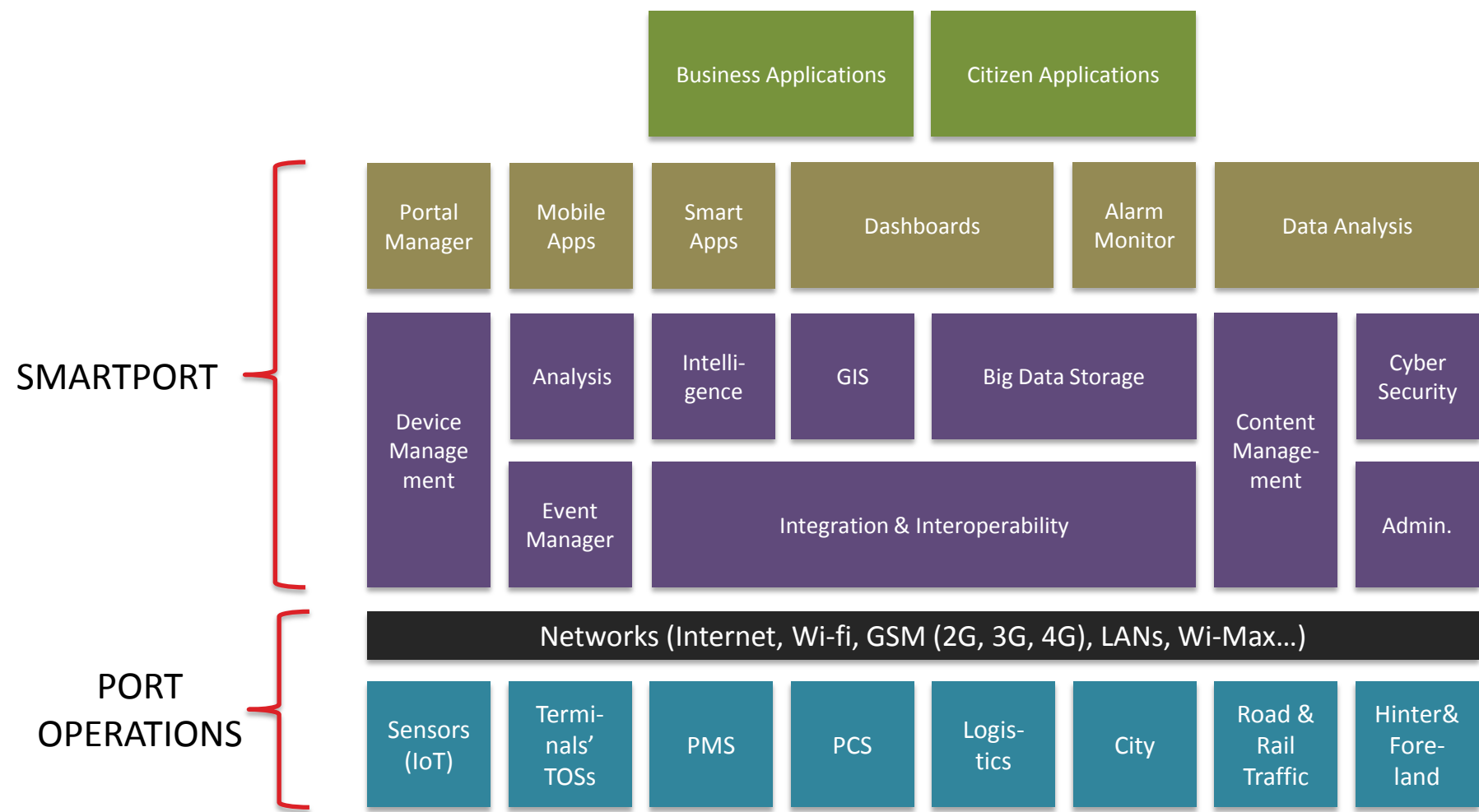




... and actual tools to present this info to Users: Which info? ...







Valenciaport's approach



- How is Valenciaport facing the SMARTPORT initiative: Two directions approach:
 - Top to bottom: define what si to be shown:
 - KPIs for the dashboards
 - Statistics
 - Virtual operating centre
 - Bottom to Top:
 - Developing the sensorization of the Port. So Port Authority as Terminal Operators and Transport Operators
 - Making available all the other pieces of information

Valenciaport's approach



- Some questions still to discuss in Valenciaport:
 - Investment vs service
 - Are we going to invest on a SMARTPORT platform?
 - Are we going to use an already existing one?
 - Re-use of SMARTCITY existing platforms?
 - SMAC strategy:
 - Socialnetworks
 - Multimedia
 - Analytics
 - Cloud

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