

PORT AUTHORITY STRATEGY/BUSINESS MODEL

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LARISSA VAN DER LUGT RHV – BV SCHOOL OF ECONOMICS VANDERLUGT@ESE.EUR.NL



CONTENT



☐ BACKGROUND ROADMAP

☐ UNDERLYING PRINCIPLES

☐ APPROACH





BACKGROUND TO ROADMAP

ROADMAP

- ☐ COMBINATION RHV AND RSM
 - ☐ HENK VOLBERDA
 - ☐ FRANS VAN DE BOSCH
 - ☐ RICK HOLLEN
 - ☐ LARISSA VAN DER LUGT

☐ INVOLMENT POR: CORPORATE STRATEGY

THE CORE CHALLENGE IN PORT MANAGEMENT

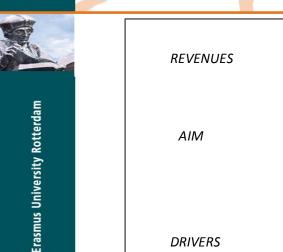


THE CORE ISSUES IN PORTS GENERALLY ARE NOT ABOUT TERMINAL OPERATIONS, BUT ABOUT:

- PORT PLANNING (INCLUDING HINTERLAND CONNECTIONS)
- ASSET UTILIZATION
- FUNCTIONAL INTEGRATION
- PROCEDURES OF CUSTOMS (AND OTHER INSPECTION AGENCIES),
- INFORMATION EXCHANGE, INTEGRATED PORT CALL OPTIMIZATION
- INNOVATION



PA BUSINESS MODEL



VALUE PROPOSITION

LAND RENT TO ATTRACT AND KFFP **PORT INVESTORS** LAND VALUE **DRIVERS** HIGH QUALITY PORT CLUSTER -EFFICIENT PORT -LICENCE TO OPERATE -LABOUR MARKET

-ICT AND INFORMATION

-INNOVATION

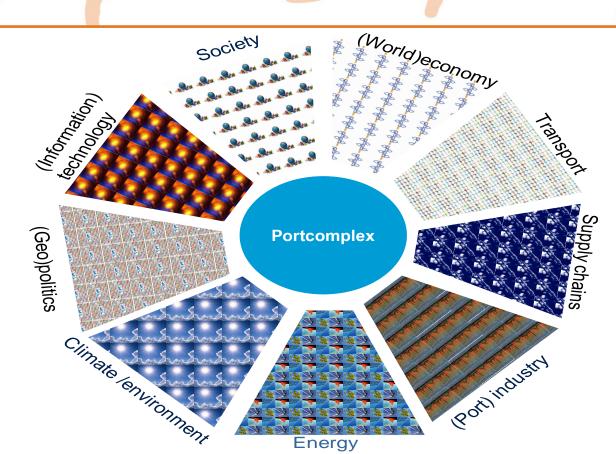
PORT DUES TO ATTRACT AND **KEEP PORT USERS** VALUE OF TRANSPORT NODE **HIGH QUALITY INTEGRATION OF PORT IN CHAINS** -EFFICIENT PORT -CHAIN INFORMATION AND COMMUNICATION

-INTERFACE TERMINALS - INLAND

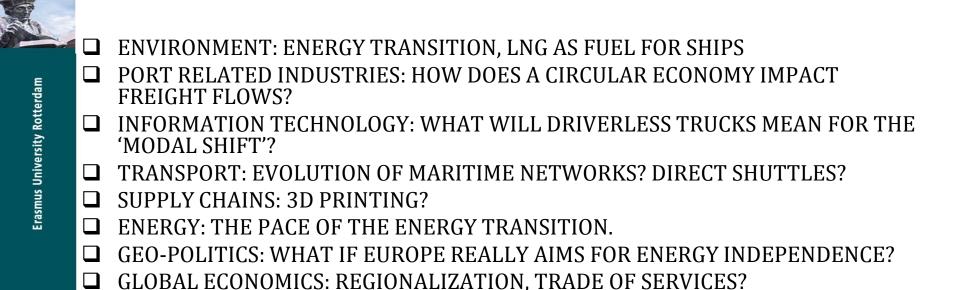
CONNECTIONS

-INLAND NFTWORK

BACKGROUND: DRIVERS OF CHANGE



DRIVERS OF CHANGE: IMPACT

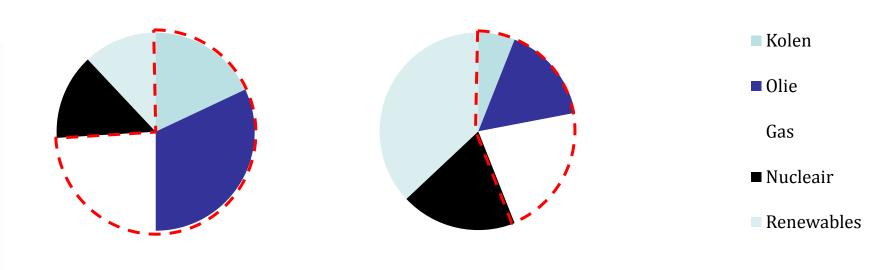


SOCIETY: AGING, REPLACEMENT OF LABOUR BY CAPITAL





SHARE FOSSIL FUELS



source: International Energy Agency, Energy Demand in European Union in 2040 scenario)

2040: 44%

2013: 74%

INFORMATION TECHNOLOGY

□ INFORMATION-EXCHANGE

☐ INTERNET OF WHAT?

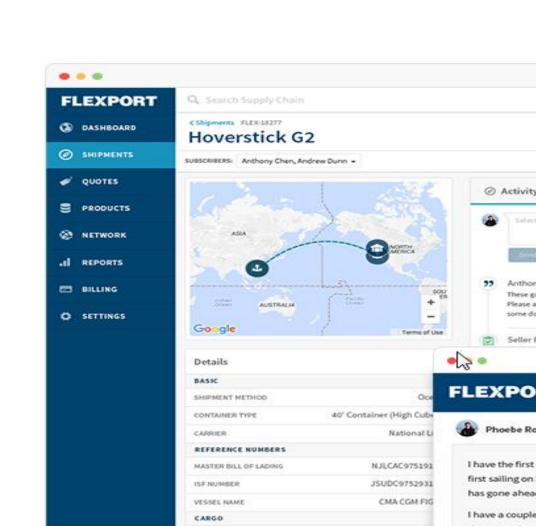
☐ 3D PRINTING

□ BIG-DATA

SHIPMENT VISIBILITY

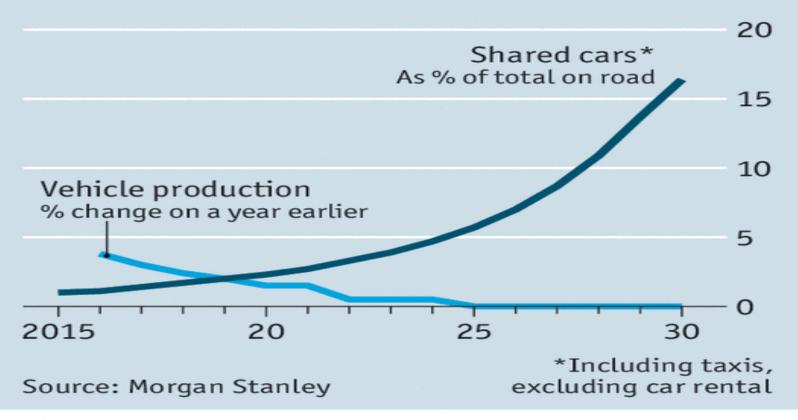
Track your shipments and receive notification updates

Manage all your company's global freight shipments through a simple online dashboard. Your dedicated customs broker and logistics experts will manage the movement of your goods while you optimize your supply chain down to the SKU



Sharing, not growing

Worldwide forecast





3D-PRINTING: LARGE IMPACT (SUPPLY CHAINS:

- ☐ LOCAL PRINTING AND DISTRIBUTION
- ☐ PRODUCTION TO INDIVIDUAL CUSTOMER ORDER
- ☐ SHORT LEAD TIMES
- ☐ LOW TRANSPORT COSTS
- ☐ LOW CARBON FOOTPRINT

IMPACT PORTS?

INTERNET OF WHAT?

...SHIPS

...CONTAINERS

...NOSES

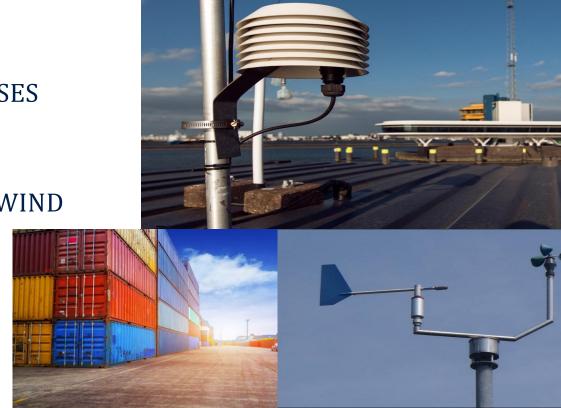
...EQUIPMENT

...WATER & WIND

...DRONES







SOMETHING HÁS TO CHANGE...



BUT:

- 80% OF THE ASSETS ARE ECONOMICALLY (AND TECHNICALLY?) WRITTEN OFF
- ☐ 60% ACTIVITIES ARE FOSSIL-FUEL BASED
- ☐ HIGH ENERGY PRICES IN EUROPE
- ☐ HIGH LABOR COSTS (+BATTLE FOR TALENT)
- ☐ HIGH LAND LEASE COSTS



ROADMAP STRUCTURE



☐ 3 PROJECTS DEFINED





UNDERLYING PRINCIPLES

CONTEXT CHANGE



INTERNAL

- ☐ FROM LANDLORD TO DEVELOPER
- ☐ FROM INVESTMENTS IN INFRASTRUCTURE TO NETWORK

EXTERNAL

- ☐ END OF FOSSIL FUEL
- ☐ GEO-ECONOMICAL AND GEOPOLITICAL DYNAMICS
- ☐ SUPPLY CHAIN CHANGES
- □ DIGITALISATION

CONSEQUENCE



□ BUT: CAN WE CONSIDER A PORT AUTHORITY LIKE ANY OTHER COMPANY?

PA CHARACTERISTICS

- ☐ GEOGRAPHICALLY TIED
- PUBLIC OWNERSHIP (BUT ACTING ON COMMERCIAL GROUNDS)
- MARKET DISCIPLINE ONLY LIMITED
- MIX OF PUBLIC AND COMMERCIAL GOALS
- ☐ STRONGLY RELATED TO PRIVATE COMPANIES IN THE PORT

Public Private
PDC

STRATEGIC GOALS



OR,

☐ CREATION OF FINANCIAL VALUE WITHIN SOCIETAL CONSTRAINTS

YOU NEED TO MAKE A CHOICE FOR BEING ACCOUNTABLE!



- ☐ FINANCIAL VALUE: METRICS AVAILABLE
- ☐ SOCIETAL AND STRATEGIC VALUE
 - ☐ GEOGRAPHICAL PERSPECTIVE?
 - ☐ TIME HORIZON?

HOW TO INCORPORATE THESE VALUES IN STRATEGY MAKING PROCESS?

SCOPE OF ACTION IN CLUSTERS AND NETWORKS

- ☐ CONDITIONED BY STRATEGIC DEVELOPMENT OF COMPANIES WITH THE CLUSTER/NETWORKS
- □ INTERACTIVITY WITH ACTORS WITHIN PORT COMPLEX REMAINS KEY ASPECT FOR DETERMINING SCOPE OF ACTING

☐ MONITORING, SIGNALLING, REACTING



PORTXL world port accelerator

www.portxl.org

Global port operator PSA joins venture capital crowd

Monday 09 May 2016, 12:30

by Katherine Espina



PORTS & LOGISTICS

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Newly created venture capital unit PSA unboXed will provide money and testbed for start-ups

SINGAPORE-headquartered PSA International, operator of the world's largest transhipment hub, has unveiled its new corporate venture capital arm, PSA unboXed, with an initial fund size of S\$20m (\$15m).

PSA unboXed will invest in and nurture about 10 to 20 start-ups keen on creating innovative logistics solutions in container and cargo-handling operations and transaction solutions for the maritime trade and finance ecosystems. PSA International group president chief executive Tan Chong Meng said PSA has "the unique platform to institgate and support game-changers" in the industry, given that it is one of the world's largest port operators.

"With the internet of things, artificial intelligence, imaging capabilities, automation and robotics developments over the past few years, we feel that now is a good time to provide PSA as a testbed, a collaborative platform to harness the possibilities that are enabled by these technologies that may have been developed for other purposes but can then be extended to this space," Mr Tan said at the launch of PSA unboXed.

Asked why PSA resorted to creating a venture capital arm, Mr Tan said: "We want to try to create a culture change for ourselves, that we should be open. Any other way feels like we are controlling as much as possible. We are still going to innovate and do what we know but at the same time we are willing to bring in other stakeholders and provide a voice and work together with them.



FINDINGS ANALYSIS INTERNATIONAL STRATEGY



ARGUMENTS:

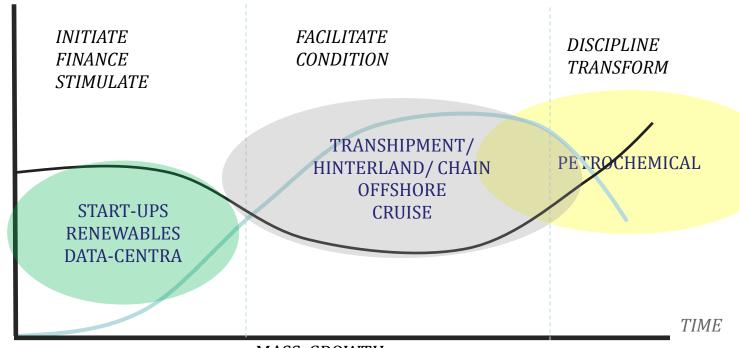
- PROVIDES BENEFITS
- ☐ DRIVEN BY KNOWLEDGE AND COMPETENCIES
- MARKET FOR PORT MANAGEMENT?

FINDINGS FROM CASE RESEARCH:

- ➤ LIMITED POSSIBILITIES YET, DIFFICULT PROCESSES
- > OPPOSITION FROM STAKEHOLDERS

PA'S ACTING IN CLUSTER

VALUE CREATION

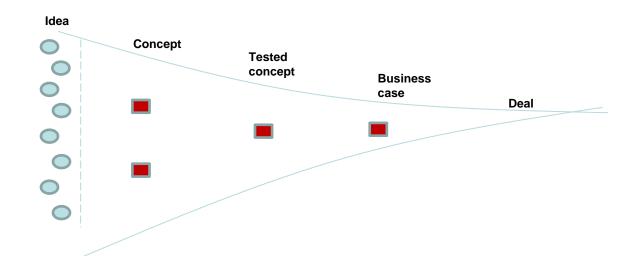


NEW SMALL SCALE HIGH RISC MASS, GROWTH CLEAR REVENUES

DOWNTURN
DECLINE
NEGATIVE IMPACT

NEW BUSINESSES/ACTIVITIES MANAGING THE FUNNEL





- PORT AUTHORITIES BENEFIT FROM ACTIVELY MANAGE THE 'BUSINESS DEVELOPMENT FUNNEL'. NOT ALL IDEAS WILL END UP IN A DEAL, SO PORT AUTHORITIES NEED A HEALTHY FUNNEL.
- PORT AUTHORITIES MAY LEARN FROM OTHER COMPANIES TO 'FAIL FAST': NOT TO HAVE IDEAS FLOATING AROUND FOR YEARS, BUT ACTIVELY PUSHING PROGRESS, AND BE COMFORTABLE WITH IDEAS THAT FAIL BUT FAST AND WITHOUT HUGE DEVELOPMENT COSTS.

Source: Peter de Langen





- HOW DO THE CONTETX CHANGES CHANGE THE BUSINESS MODELS OF ESTABLISHED PORT CLUSTERS/SEGMENTS
- WHAT NEW CLUSTERS/SEGMENTS COULD DEVELOP
- WHAT IMPACT ON POR BUSINESS MODEL
 - NEW INVESTMENTS
 - NEW SCOPE OF ACTING
 - NEW ASSET BASE
 - NEW REVENU STREAMS