

New Roles of Port and Container Terminal Automation in a Pandemic Age

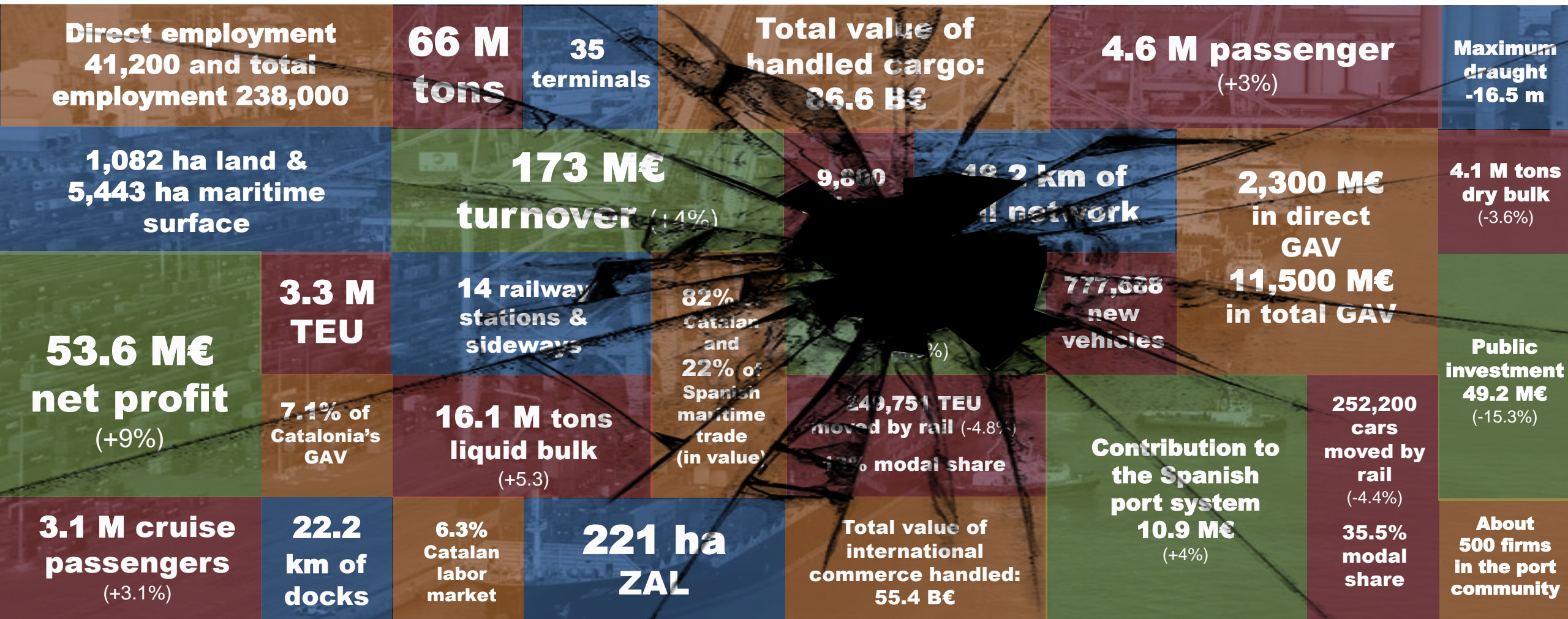


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Commercial Manager
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Port of Barcelona in numbers





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Indirect impact of Covid-19 in port and maritime trends

MEGATREND GROUP

SAMPLE OF MEGATRENDS

IMPACT OF COVID-19

Environment and energy

- More sustainable energy mix
- Increase of electric mobility

Societal and consumption patterns

- Local for local
- Servitisation

Macroeconomics and geopolitics

- Strong growth of emerging markets
- Lower growth of advanced economies

Evolution of supply chains

- Global disruptions
- Value chains digitalisation

Maritime and ports

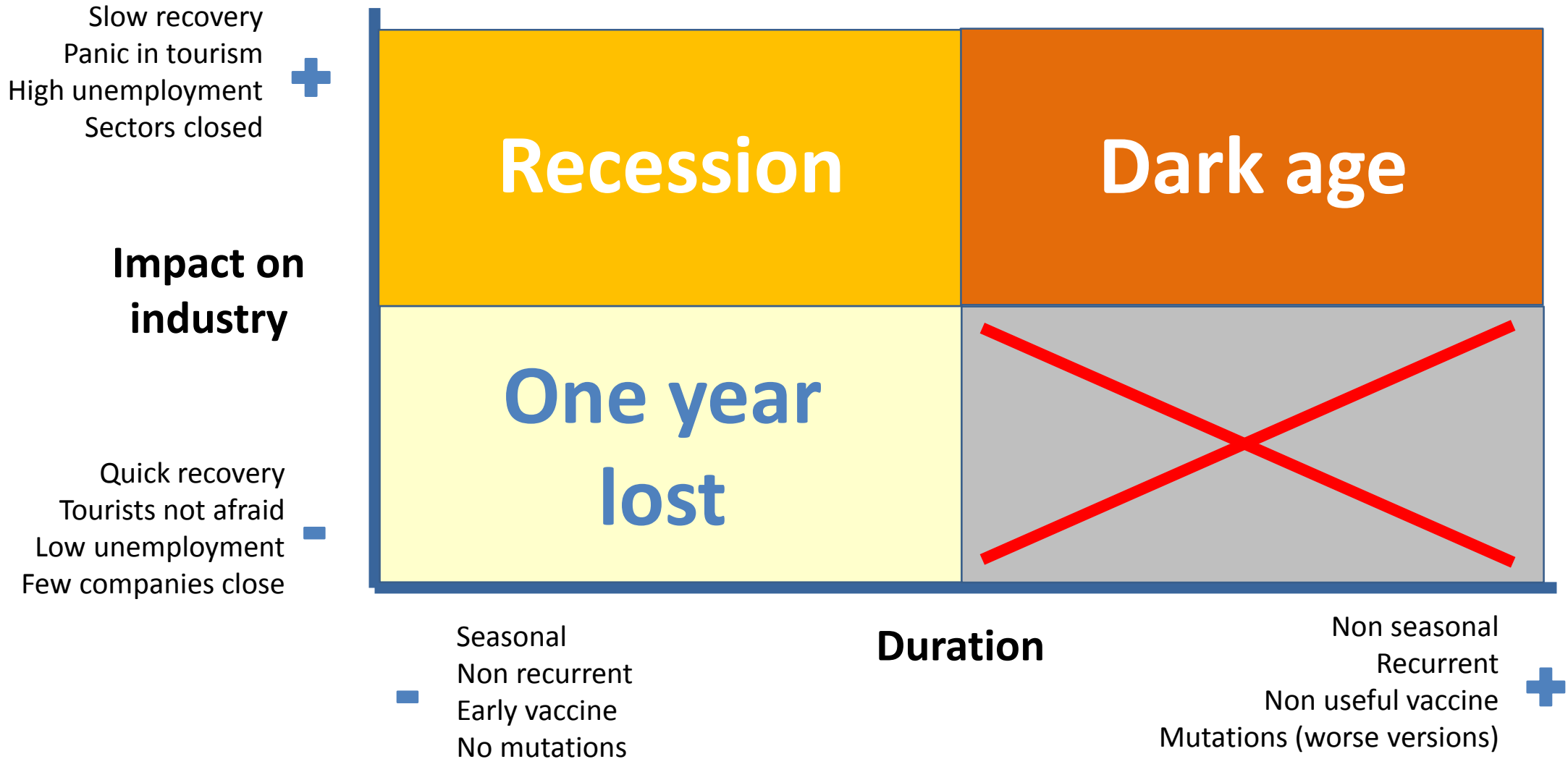
- Increase in ship size
- Shipping sector concentration





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New possible scenarios (with Covid-19)





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Short term impact on ports

- Less traffic and less income
- More affected sectors: cruise, automobile, container,...
- Less affected sectors: bulk, food,...
- Financial quick actions from public sector
- Less congestion, less emissions, less pollution,...
- Some specific traffics are growing



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Long term impact on ports

- Logistics follows industry and consumption
- Some sectors may suffer a dramatic impact
- Maybe, public investment substituting private investment
- Energy transition in ports may be slowed or stopped
- Expected developments may be stopped
- Look for new (non-traditional) businesses
- Probably more short sea and less deep sea
- Strategic drivers for ports: diversification, digitalisation, resilience, new business models, sustainability, flexibility,...



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Proposals for the future. New Strategic Plan 2021-2025

Hinterland and export enhancement

- Ensure the existing production centers and encourage the establishment of new ones
- Improve rail connexions (new access to the Port,...etc)

Strengthen links with strategic markets

Develop logistics land strategy

Attraction of new investments to achieve a sustainable and inclusive economy

- Promotion of efficient and flexible logistics land to boost growth oportunities





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Proposals for the future. New Strategic Plan 2021-2025

5G: The Port of Barcelona will have a high-speed communications network in 2023. Investment: 10 million €.

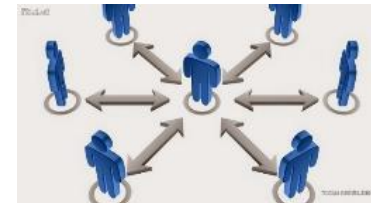
Flexibilization and innovation: Rapid adaptation to changes (digitalization, transparency, new technologies, Artificial Intelligence, robotization, etc.).



Leading the necessary changes to face climate emergency:

- Plan of renewable energy generation.
- Berths electrification.

maintaining our investment capacity and development of new business models





Thank you

www.portdebarcelona.cat