



Legal Challenges of Emerging Technologies in Shipping

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Presentation outline

- 1 New and emerging technologies**
- 2 Blockchain**
- 3 Insurwave – an EY initiative**



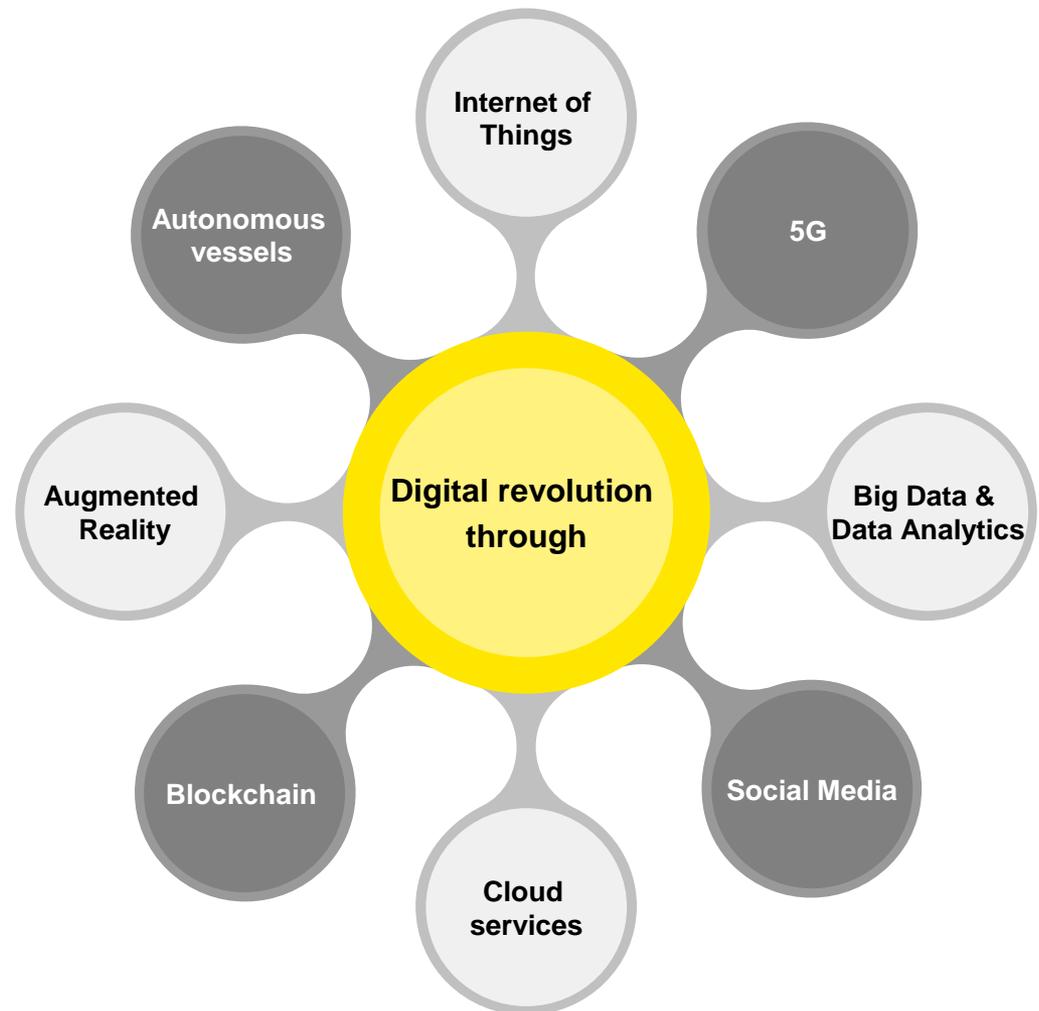
New and emerging Technologies

1

New and emerging technologies (NET)

Defined as the most advanced, prominent and novel innovations of current modern technology

- ▶ The shipping industry is one of the most innovative economic sectors
- ▶ Huge impact in economic growth
- ▶ NET allow for lower costs of business, as well as reduction of negative externalities
- ▶ Solutions to Bureaucracy (paper trails / documentation) and costly Intermediaries – faster, safer, better transactions
- ▶ Blockchain – smart contracts



Platis – Anastassiadis and Associates Law Partnership

- ▶ Dedicated team of five legal experts on digital law and certified information privacy professionals in Athens
- ▶ Leading role in GDPR implementation
- ▶ Active engagement with regulatory and legislative initiatives as a partner of the European Law Observatory on New Technologies (ELONTech)
- ▶ EY network of thousands of digital – focused professionals, over a wide spectrum of business sectors
- ▶ Strong synergy effects with business advisors, cyber security consultants and IT experts





Blockchain

2

Blockchain in a nutshell

Distributed Ledger Technology

A shared and distributed ledger that enables the recording of transactions and the tracking of assets in a network.

The asset can be both tangible or intangible, and it can also be used to facilitate the management of the flow of goods and payments, or the exchange of extensive data stored on the ledger.

Anything of value can be tracked and traded on a blockchain network.

Basic Characteristics

- ▶ Distributed: there are no servers or central authority
- ▶ Trustless: use of cryptography (public/private key function)
- ▶ Can either be public or private, privileged or not
- ▶ A ledger can be a record of anything

Blockchain is the technology that enabled Bitcoin, the most famous Cryptocurrency, to be born and be effectively used.

However, the two technological achievements should not be confused.

Permanent and immutable records:

After each successive registration, a block is created, based on the network consensus: the total number of users verifies that the intended transaction is the last in a chain of transaction blocks (hence the name).

Blockchain in a nutshell

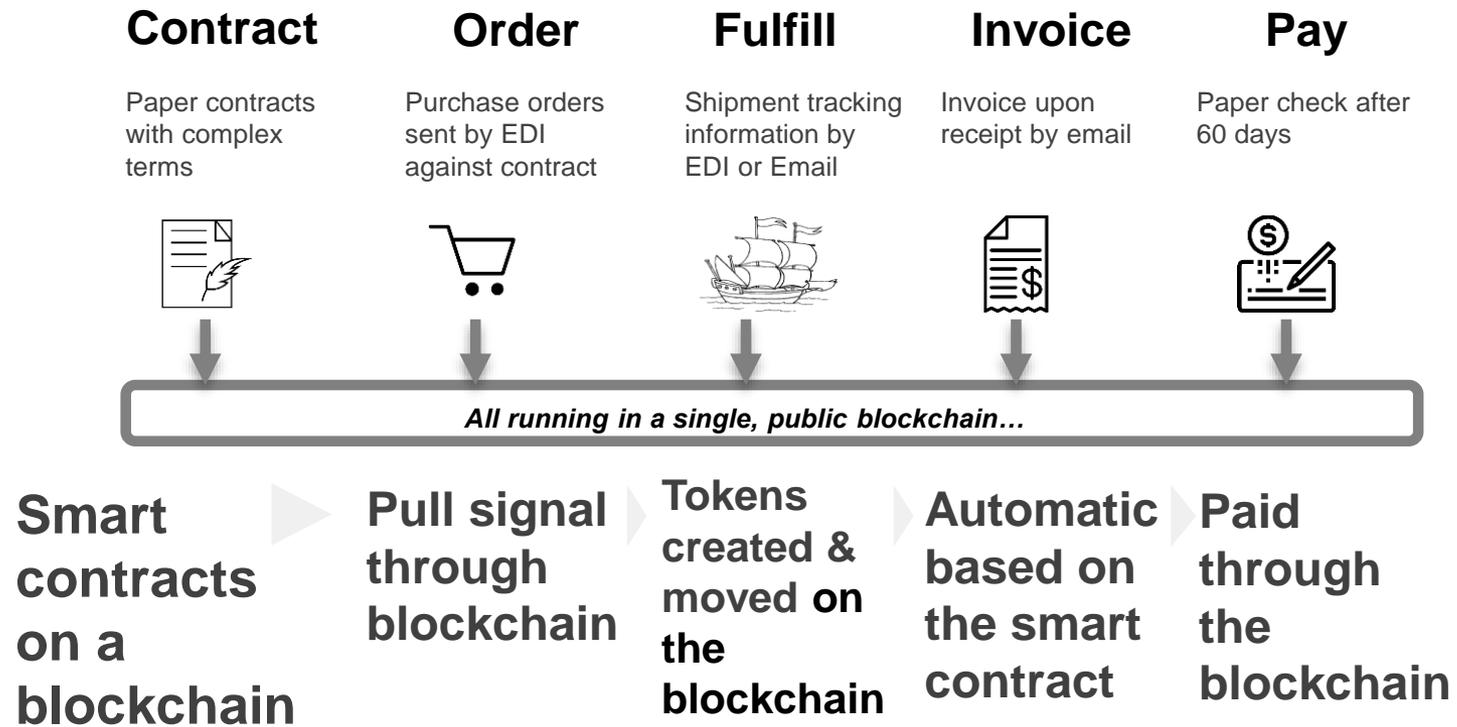
Blockchain applications are found in:

- Cryptocurrency (Bitcoin).
- Smart contracts (Ethereum).
- Trade registers (Visa V2B Connect).
- Clearing house (Nazdaq)
- ICOs
- Resource management (Everledger).
- Microtransactions (Streamium).
- E – governance (e-Estonia).
- Shipping (Insurwave)

Blockchain applications in the Shipping industry:

- ShipChain – “track and trace”
- TradeLens
- Blockfreight
- Blocklab
- Solas VGM
- Smart Port - Antwerp
- Port Community System – India
- Shipowner.io

Ease of contracting



Legal challenges

Contracting

- Legal enforceability of smart contracts
- Software risks – hacking, loopholes
- Payment systems
- Liability

Privacy issues

- Retention of personal data on the blockchain

Intellectual property rights

Regulation and self-regulation

- Legislators mainly focused on cryptocurrencies
- Dispute resolution
- Jurisdiction and applicable law

Legal training

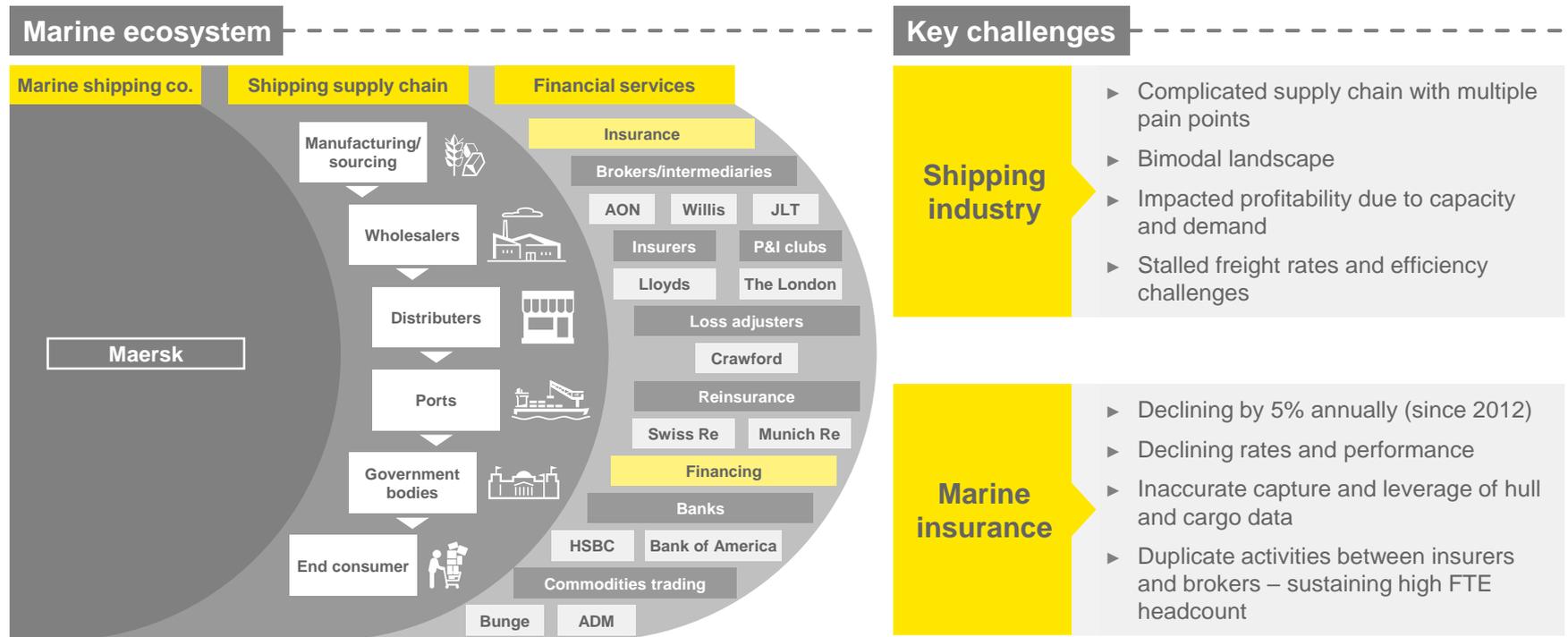
- Traditional legal thought
- Civil law system inflexibilities



Insurwave

3

The shipping and marine insurance industries are facing significant operational and financial challenges



Strategic priorities emerging from these challenges



Improving

visibility of assets
and exposure

Improving

visibility of risk
and pricing

Improving

response to claims and
increased loss prevention

Automating

post-sale activities

Dealing

with regulatory controls,
including data protection,
cyber transparency and
traceability of information

Creating

new models, including
group reinsurance buying for
uneconomic client segments

Prompt solutions to costly problems

1 | Paper trail



fast and trusted transactions without the need of lengthy bureaucratic procedures

2 | Claims handling



faster claim settlement through automation

3 | High premiums



live tracking and efficient risk assessment

4 | Intermediaries and brokers



Automated, trustless transactions over networks and not over phone and fax

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We are an independent law office with a core team of 18 lawyers. Our office provides high quality legal services across the full range of commercial and financial transactions.

Especially in our geographical area, we have established an ongoing cooperation with the respective law firms which are associated with EY, in order to offer seamless and consistent regional services to our clients that have cross country operations.

Our experience allows us to better understand our clients' needs and offer them integrated multidisciplinary solutions in the fields of accounting, tax and financial advisory services. Platis – Anastassiadis & Associates Law Office is solution focused. We work closely with our clients to seek innovative and practical ways of dealing with their issues. Our priority is to help our clients meet their business objectives. Our expertise, commitment and enthusiasm has resulted in the build up of a client base which includes local and international listed, State and private sector companies and financial institutions.

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