

Mexico as a digital maritime nation

The legal future of ports, data
and technological sovereignty

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The State provides capacity.
The Nation helps sustain it



Institutional capacity



Collective commitment

Data is legal infrastructure

Maritime Single Window	←→	Ship regulatory formalities
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Mexican Foreign Trade Single Window (VUCEM)	←→	Foreign trade
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Port community	←→	Logistics coordination
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Transport documents	←→	Private relationships and control
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Digital capacity requires five legal answers

- 01 Who may decide?
- 02 Is data integrity preserved?
- 03 How can it be proved?
- 04 Who is accountable?
- 05 Who controls the document?



The data category determines the authority to use it

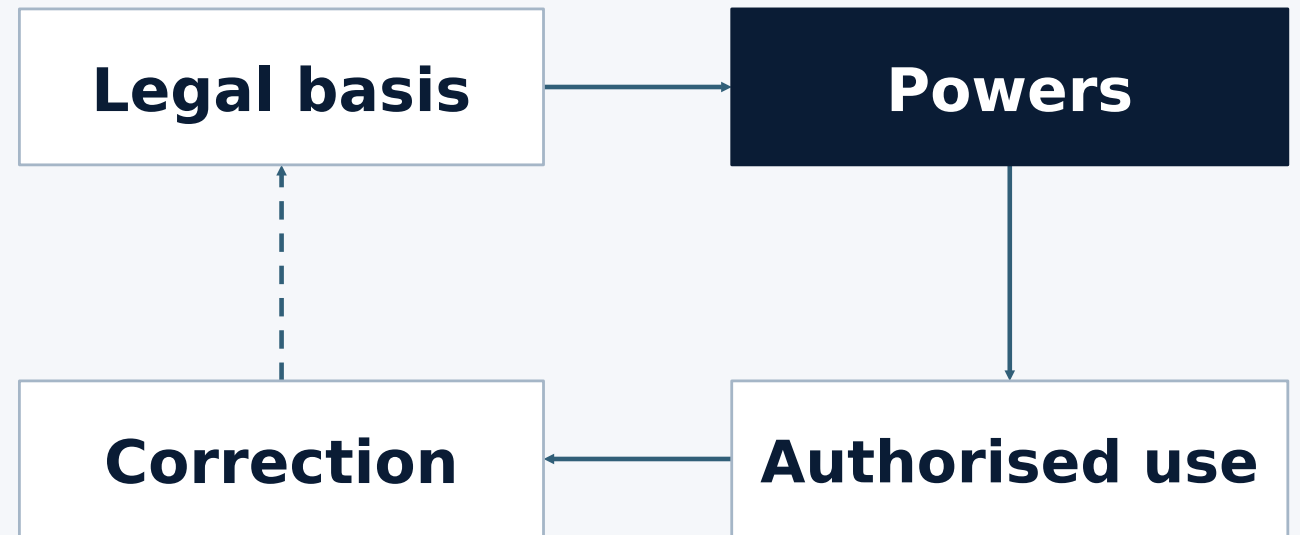
Personal data

Public records

Commercial information

Operational data

Transport documents



Originators, custodians and decision-makers retain distinct roles

Preserving evidence allows us to reconstruct and challenge a decision

Preserve	Record and history
Attribute	Authorship and decision
Explain	How the system works
Challenge	Examination and assessment



Legitimate digital capacity protects people



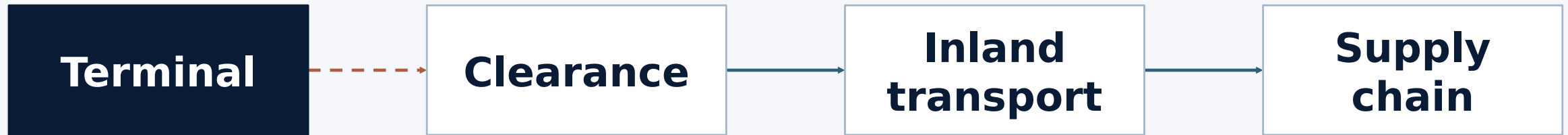
Purpose

Access

Retention

Correction

A cyberattack can halt a logistics chain



Disruption

Authority

Who activates the contingency plan

Continuity

Which operations continue

Evidence

How it is documented

The file can be copied. Control must be exclusive

Technical copies

File A

File B

May coexist

Legal control

BEFORE

Holder A

Holder B

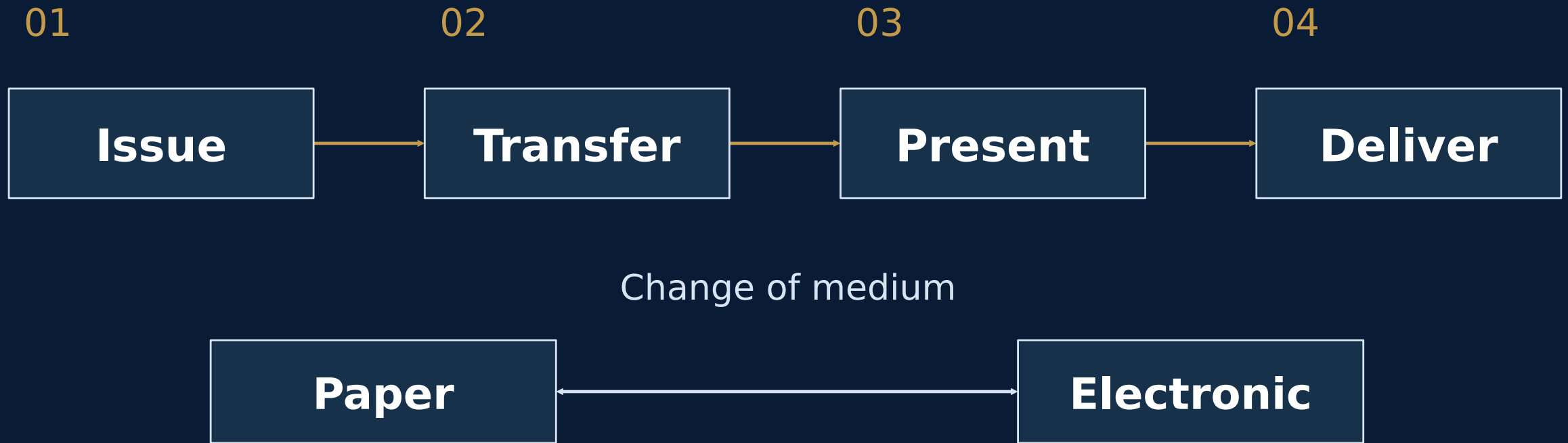
AFTER

Holder A

Holder B

Transfer: A loses disposal powers; B gains control

Reform must complete the document's legal lifecycle



One effective instrument in circulation. History preserved.

Logistical sovereignty requires the capacity to choose

Verify the provider

Recover the information

Migrate with the history

Continue operations



Legal architecture precedes technology procurement



Author's proposals

Data

Responsible parties and access

Continuity

Roles and contingency plans

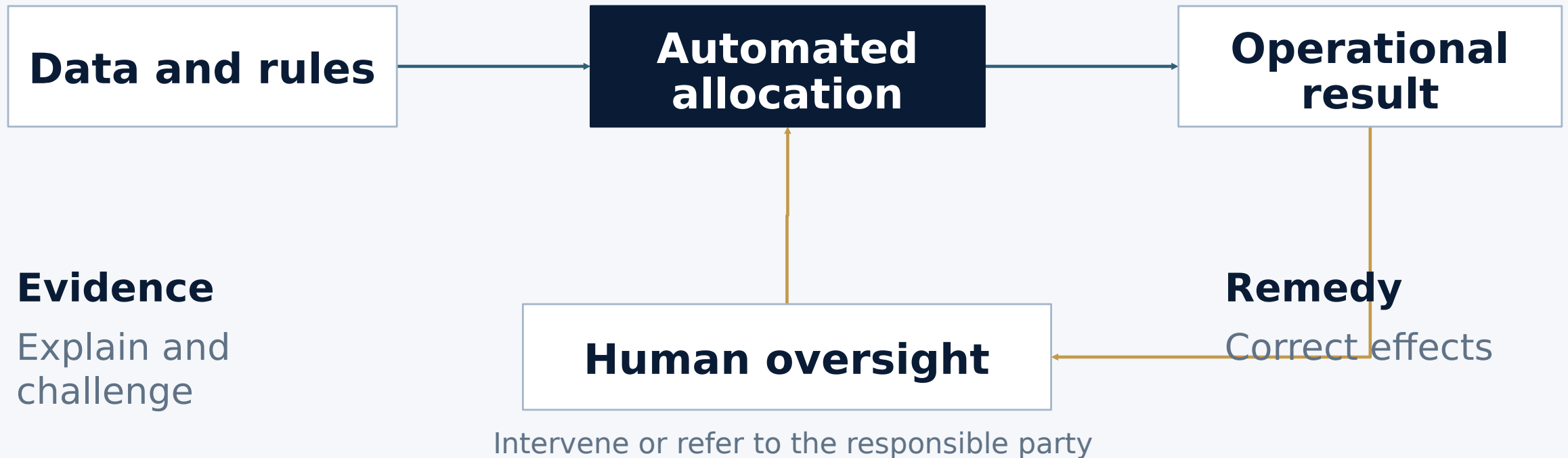
Environment

Operational traceability

Performance

Verifiable results

Automated yard allocation does not remove responsibility



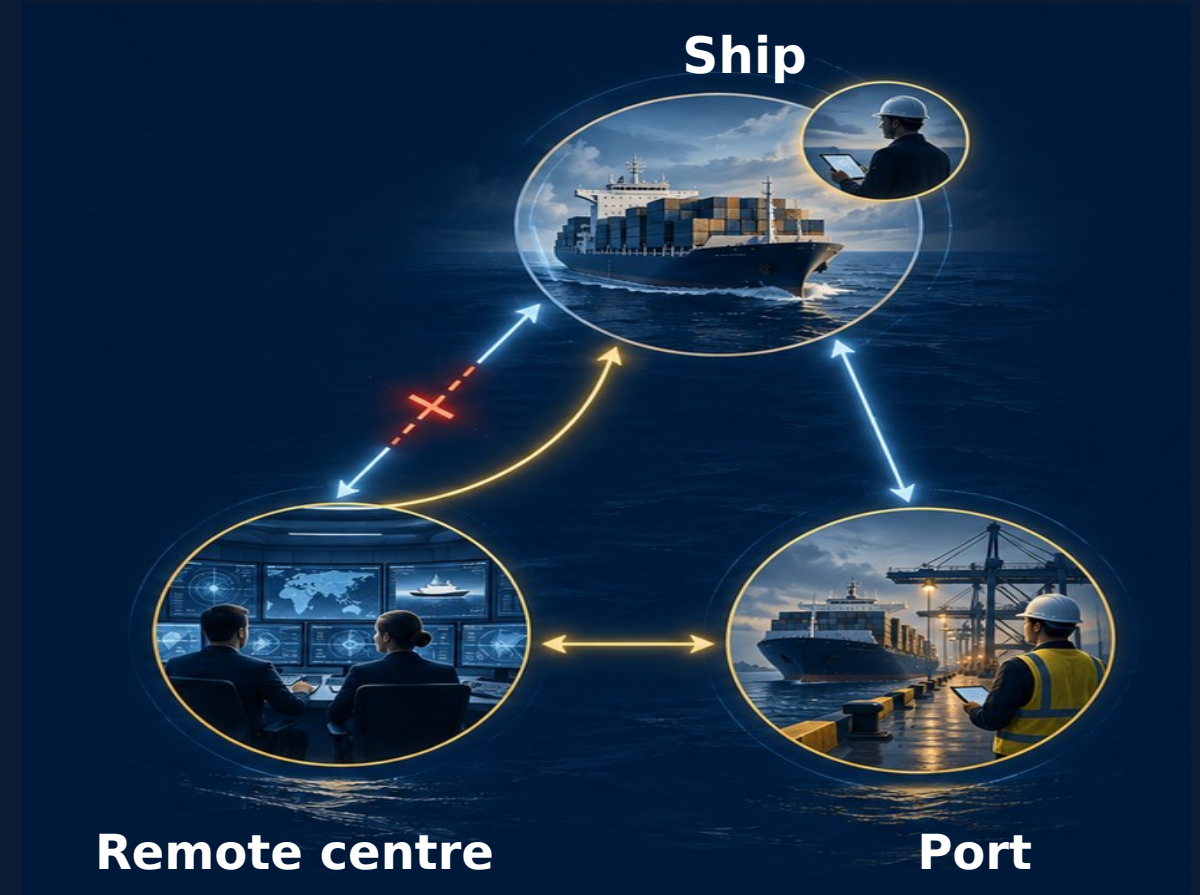
Ship autonomy still requires an accountable actor

Command

Training

Communications

Evidence



Information connected. Legal powers preserved

Maritime and port information

Ocean information



Each node retains its responsible party

Institutions and participation sustain maritime capacity

01

Coordination

Short term

02

Knowledge

Observatory report within twelve months

03

People

Evaluate and oversee artificial intelligence (AI)

04

Resources

Outputs and outcomes

Education, culture and participation

Each legal gap requires the appropriate instrument

SHORT

Operate

Reconstructible
case file

Responsible party

MEDIUM

Harmonise

Complete electronic
instrument

Resources

LONG

Sustain

Sustainable
information network

Evaluation

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Legal authority

Evidence

Attributable decision

Continuity



Mexico is a maritime nation.

Let us also build
its digital capacity.





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