PCS: From Current Practice to future possibilities

Implementing a PCS: Lessons from the Trenches

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Hands-on PCS & NMSW Experience

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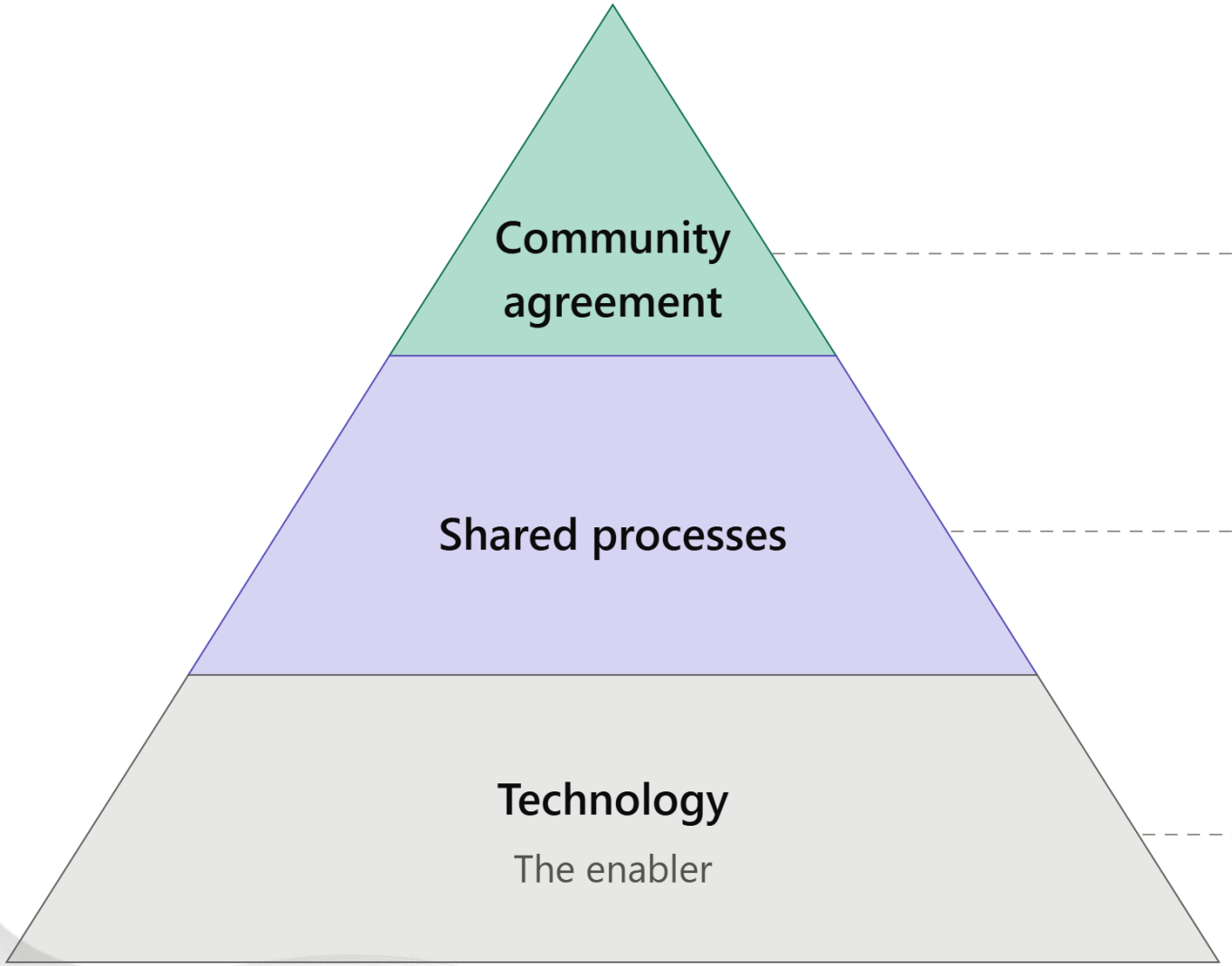
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Digitizing ports and terminals for +30 years

We run the PCS of the Port of Algeciras

Our numbers:
28 Spanish Port Authorities
4 Regional ports
2 National Port Agencies
18 countries
10 Terminals
200+ digitized ports and terminals.
Offices in Lima (for Americas)

A PCS is not a piece of software. It’s a community agreement.



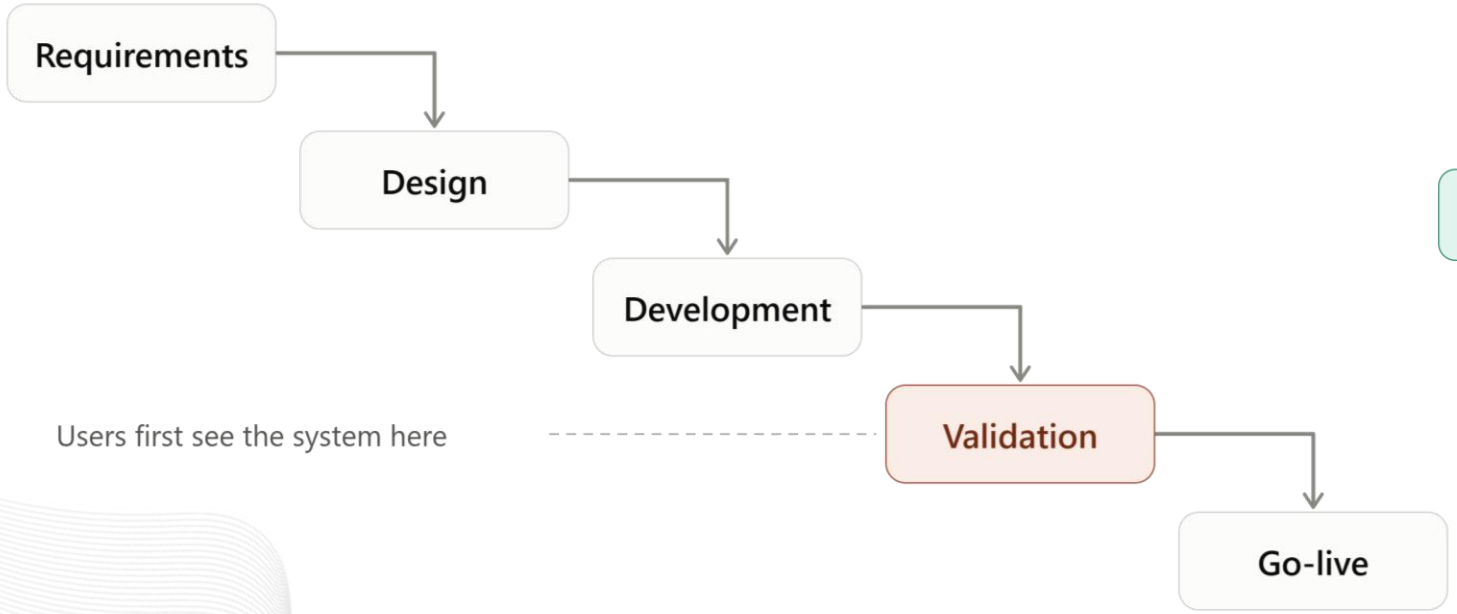
Governance and trust
Neutrality, shared rules

Redesigned workflows
Calls, cargo, inspections

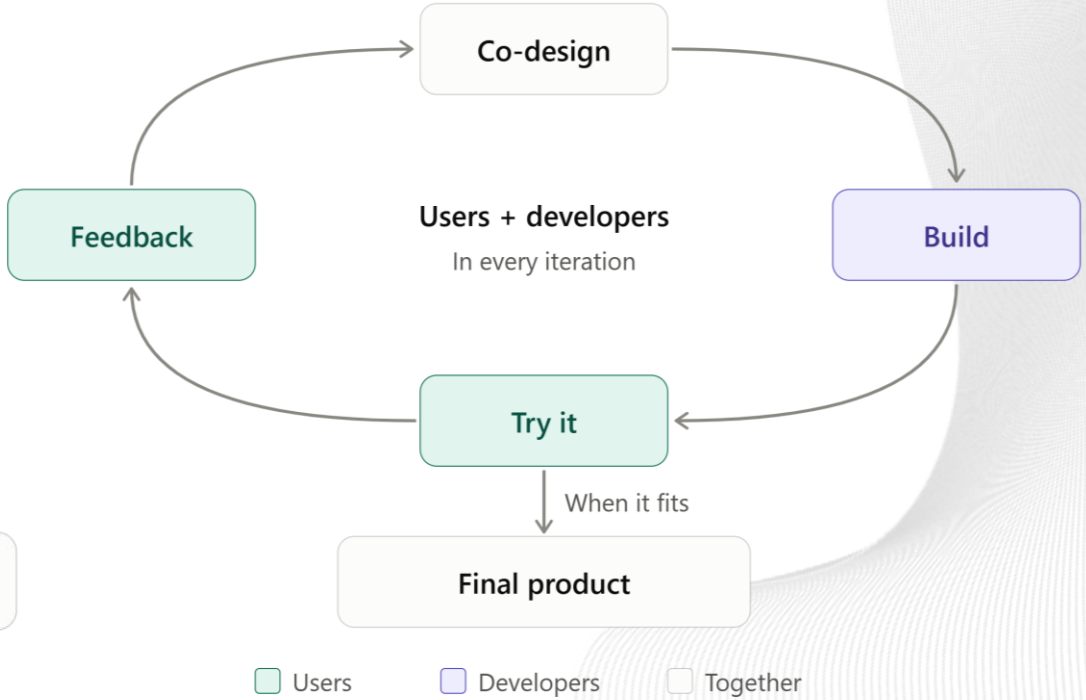
The PCS platform
The means, not the end

Lesson1 : Involve the user/community from the beginning

Traditional Development process



Human-User in the loop



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Lesson 2: each port is unique

Spain · Same regulation · Same national single window

Algeciras

Transshipment hub

Shipping lines lead

Strait passenger peaks

Speed is everything

Avilés

Bulk and industry

Few, large clients

Direct plant links

Simple, robust flows

Tenerife

Island port

Ro-ro island supply

Cruises and ferries

Fuel and bunkering

↓

One core product, configured for each community

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Lesson 3: Agree, freeze, deliver



Define
With each actor

→

Agree
With all parties

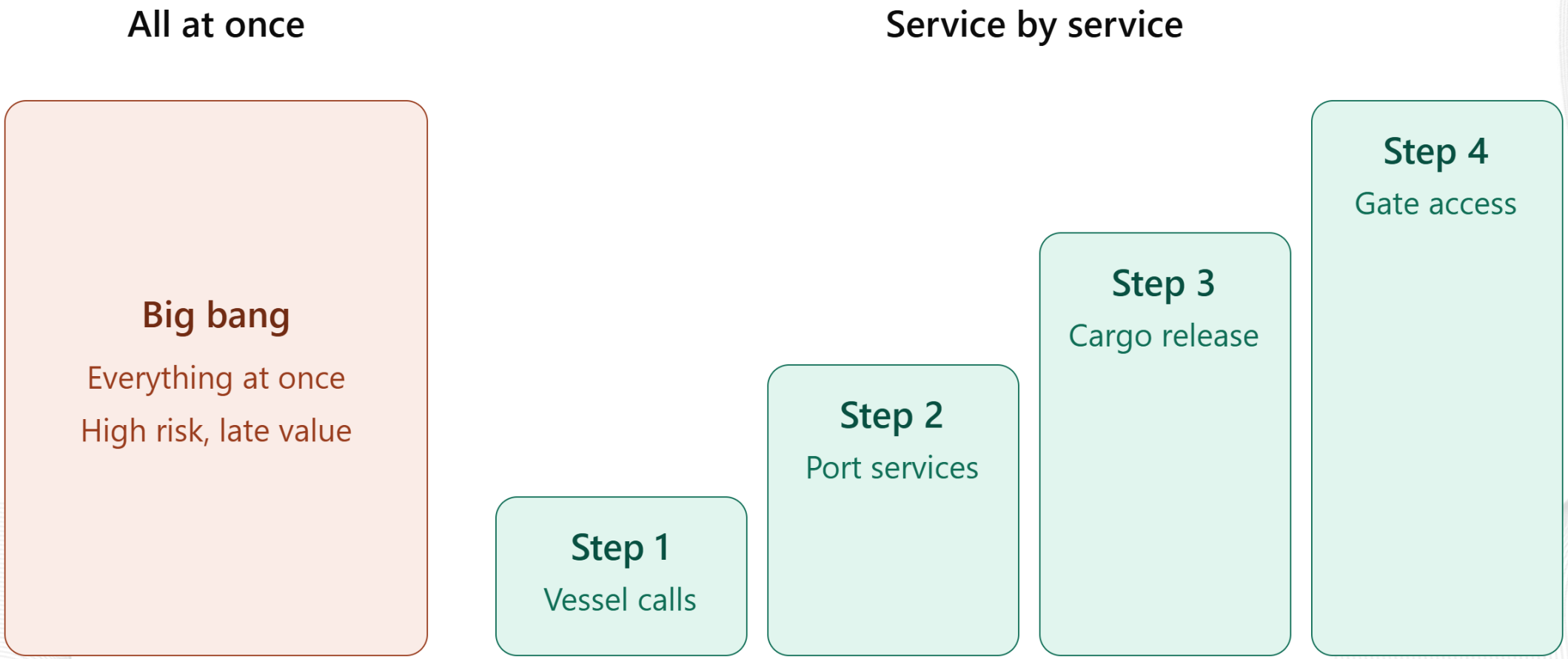
→

Freeze
No changes now

→

Deliver
Evolve in v2

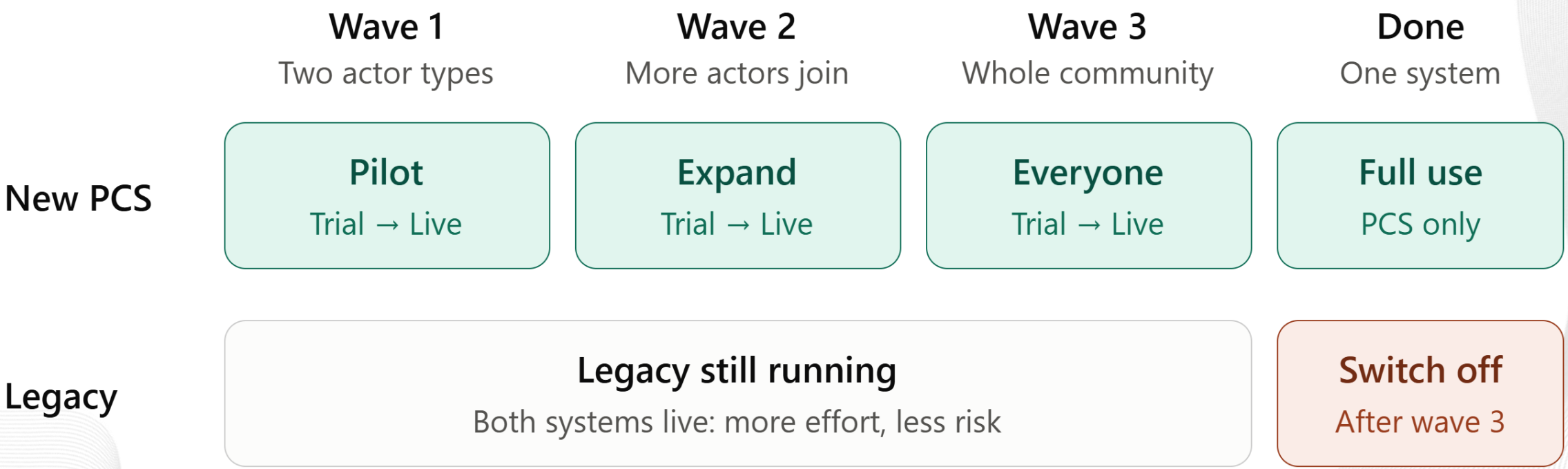
Lesson 4: Think big, start small: one service at a time



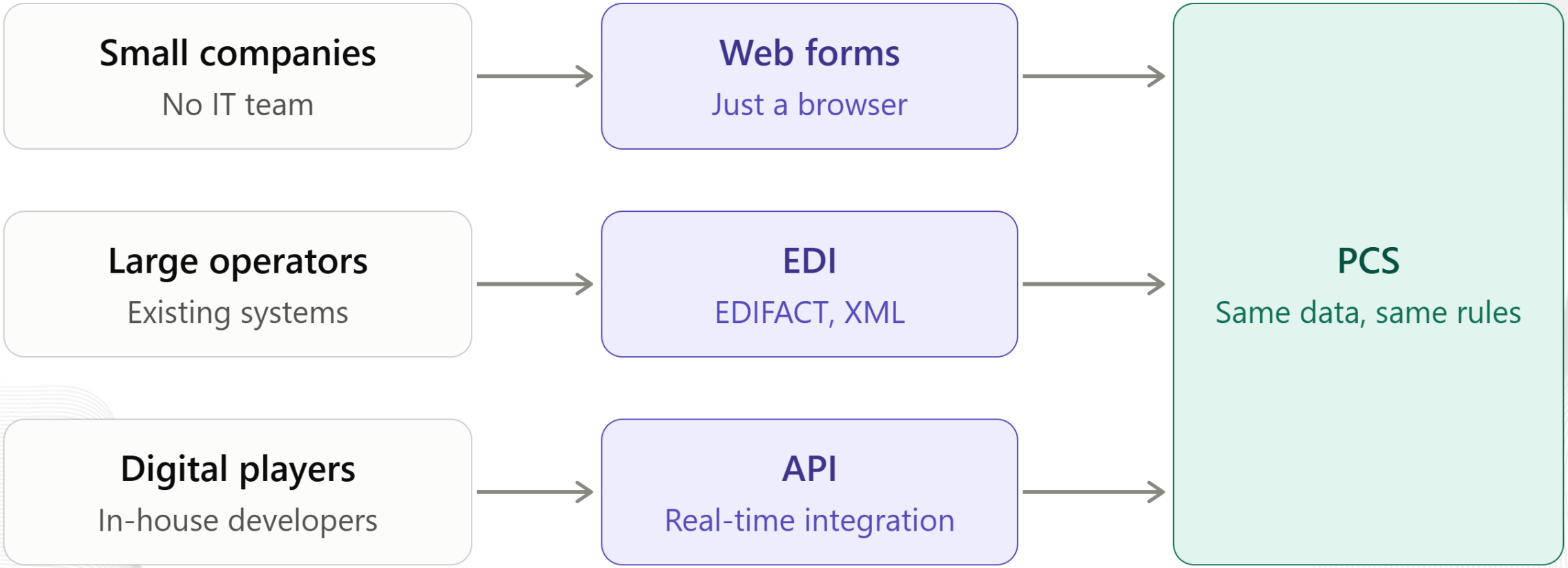
Lesson 5: Time



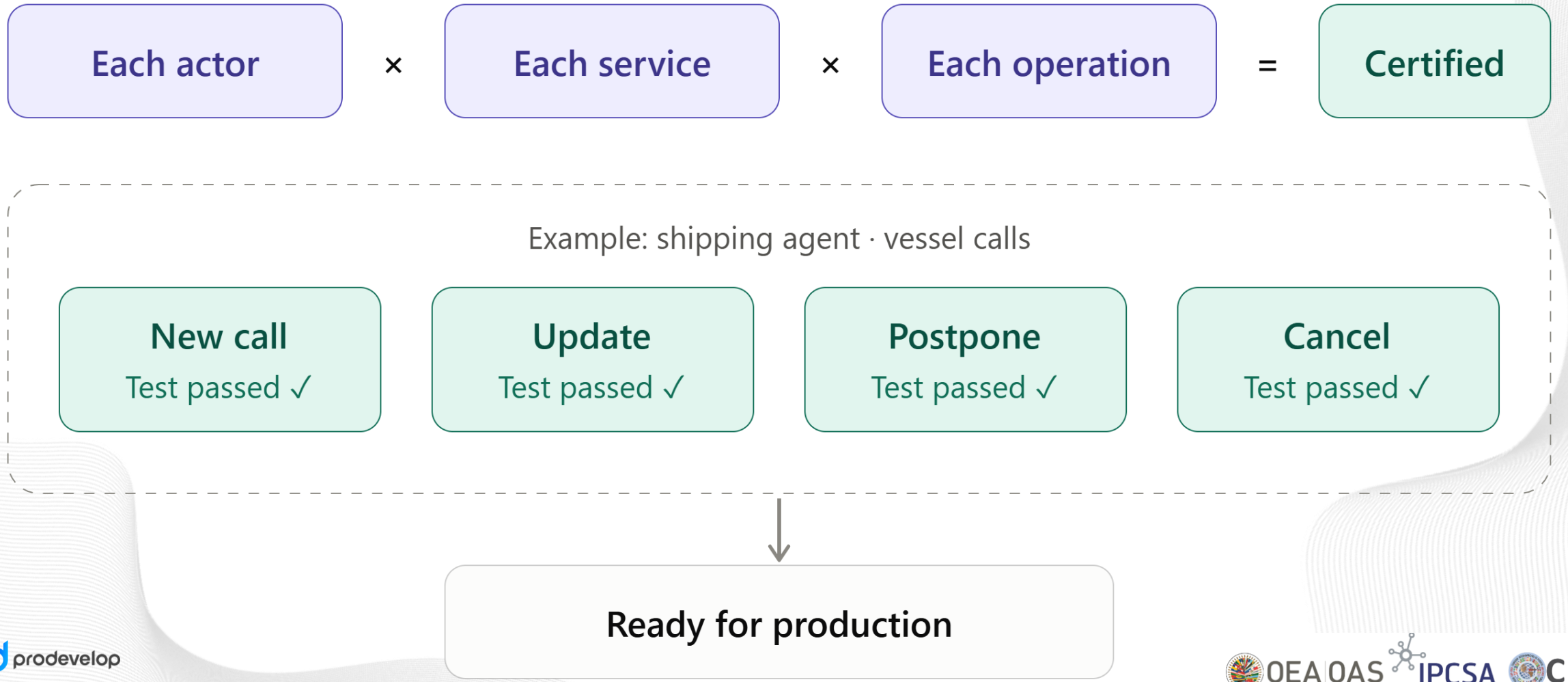
Lesson 6: Go live in waves



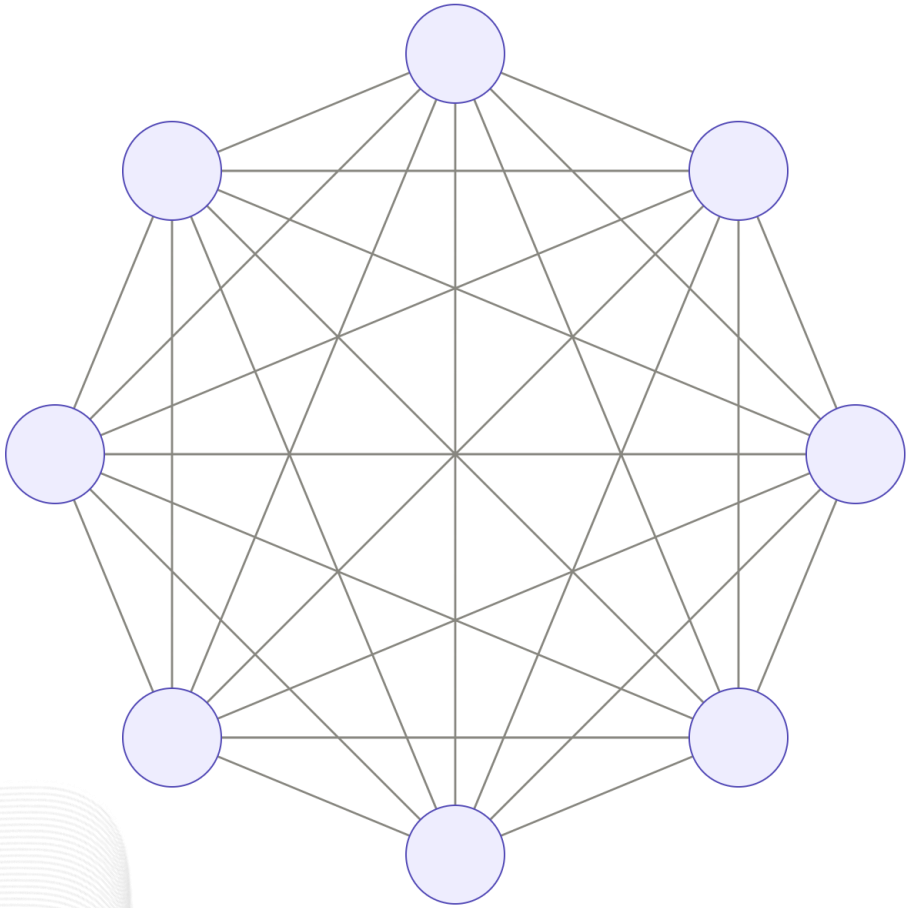
Lesson 7: Different users, different capacities, one PCS. No one is left behind.



Lesson 8: Certify every actor, every service, every operation

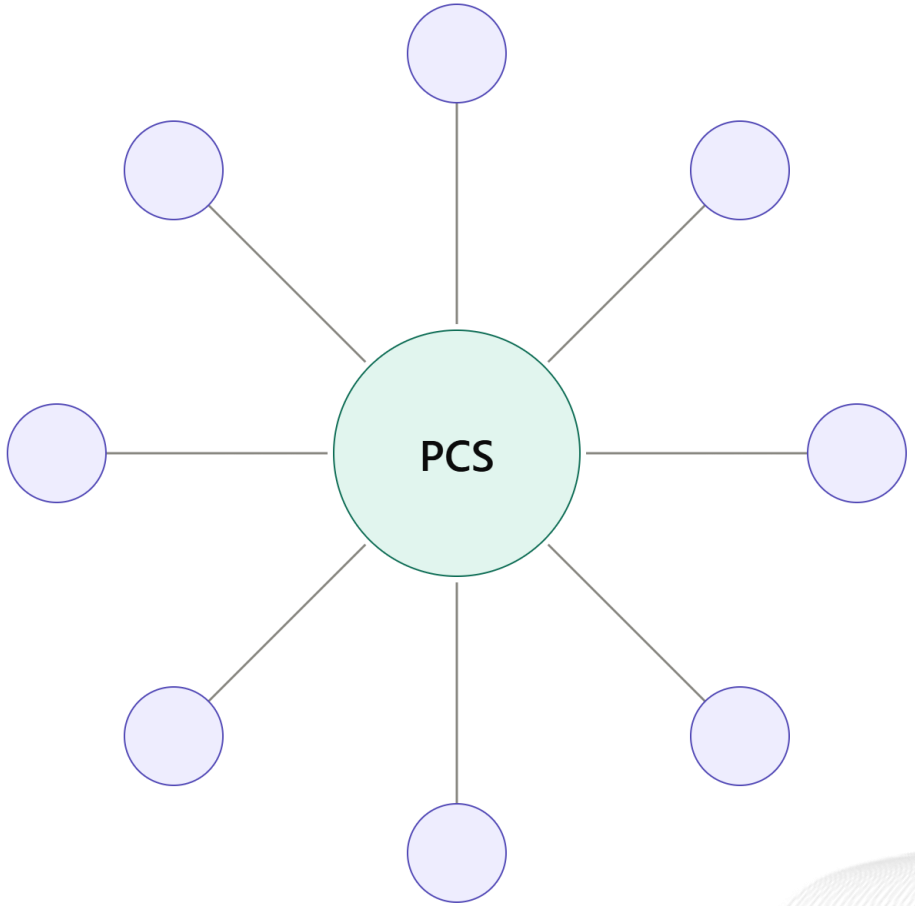


Lesson 9: The PCS as the single point of integration



Without PCS

50 actors → 2,450 integrations



With PCS

50 actors → 100 integrations

Lesson 10: Running a PCS is running a business



Other lessons

Clear leadership
Someone owns the PCS

Self-funded
Fees cover running costs

Built for 24/7
Ports never sleep

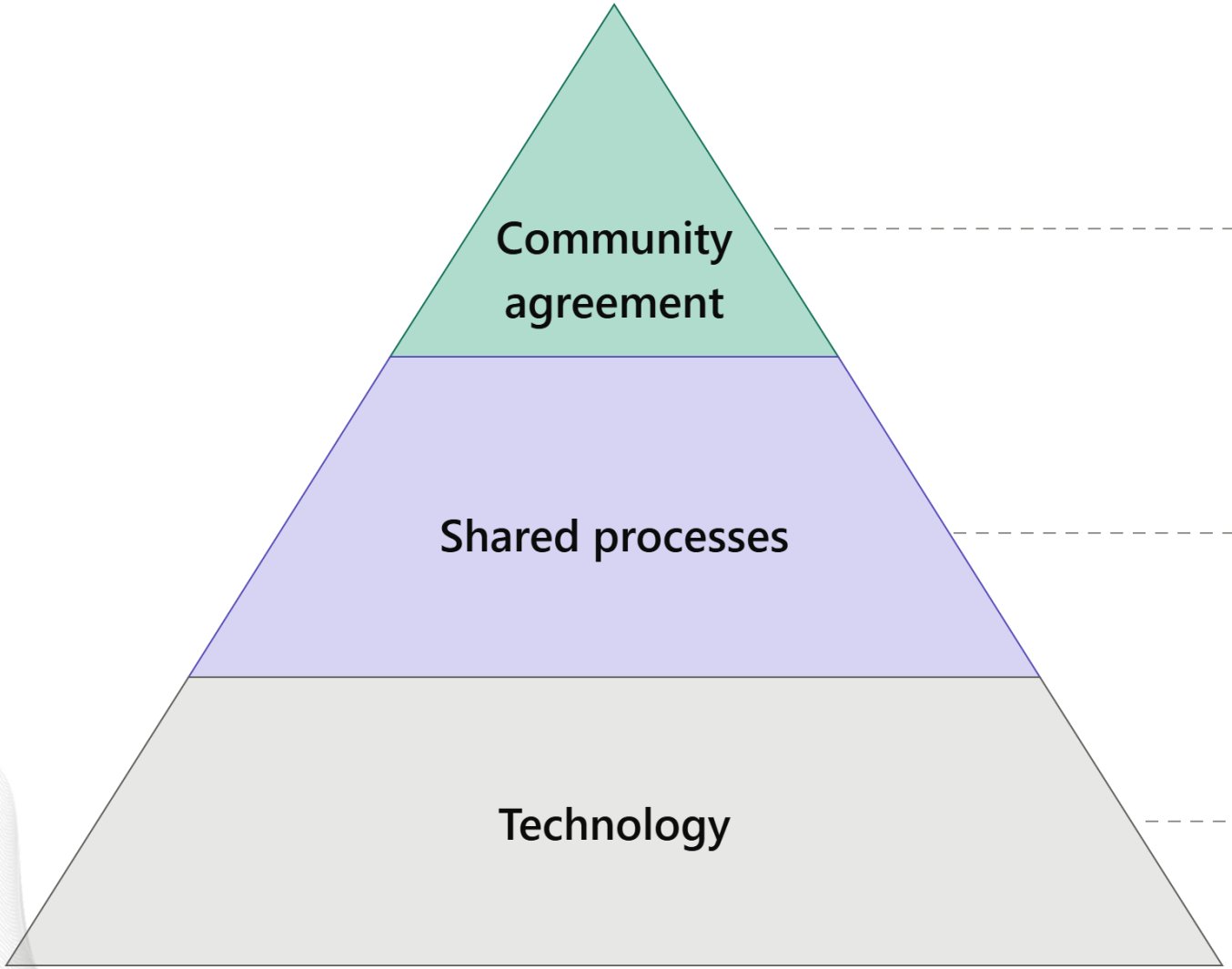
Who sees what
Data access by role

Speak standards
Standard messages only

Full audit trail
Every message traceable

Governance Technical

Conclussions: Closing the loop



User in the loop
Every port is unique
Leadership and funding

Agree, freeze, deliver
One service at a time
Waves, from trial to live

Many ways in
Certify every message
Built for 24/7

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Thank you

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