

UNDERSTANDING WHAT A DIGITAL TRANSFORMATION MEANS

SMART PORTS: HOW TO START THE DIGITAL TRANSFORMATION, CHALLENGES AND OPPORTUNITIES



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PRESIDENT OF WISTA PERU U

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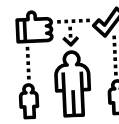
AGENDA



Smart Ports



Cultural transformation



Exponential technologies



Challenges and opportunities





APN STATEMENT OF INSTITUTIONAL POLICY

APN

La Autoridad Portuaria Nacional (APN) es un Organismo Técnico Especializado adscrito al Ministerio de Transportes y Comunicaciones, creado al amparo de la Ley N 27943, Ley del Sistema Portuario Nacional, de fecha 1 de marzo de 2003



Incorporate technological innovation in the National Port System of Peru



Priority objectives of the National Digital Transformation Policy to 2030 . PNTD 2030.



Port Digital Transformation



Ministerio
de Transportes
y Comunicaciones

Autoridad Portuaria
Nacional



BICENTENARIO
PERÚ
2024



**Digital Strategy
PEI, PNDP & PGTD**



**Digital Services and
Innovation Ecosystem**



Citizen Focus



Digital Culture and People

TOC
AMERICAS

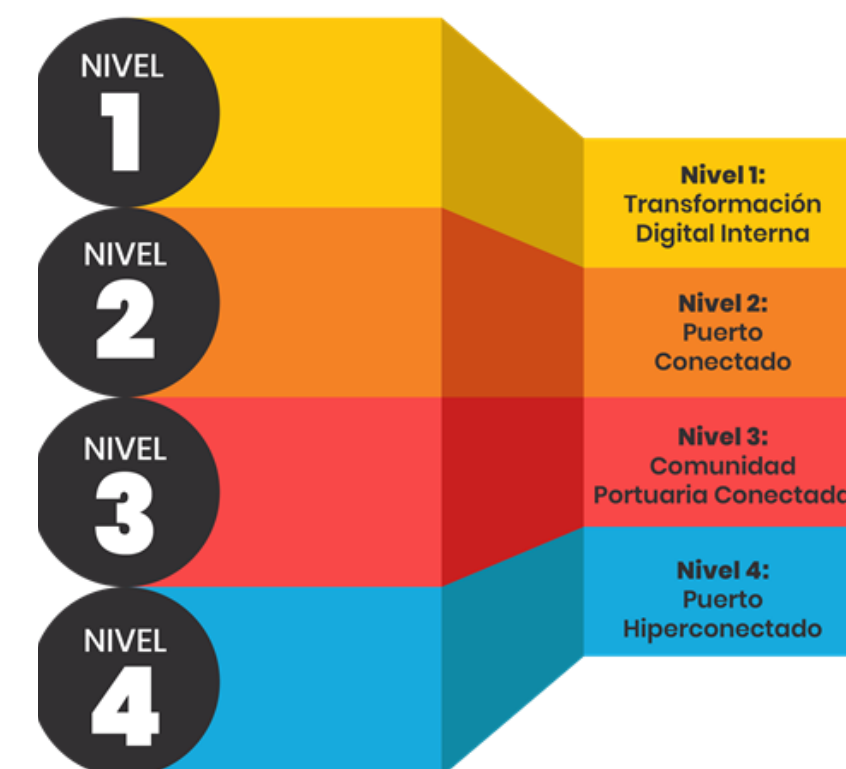
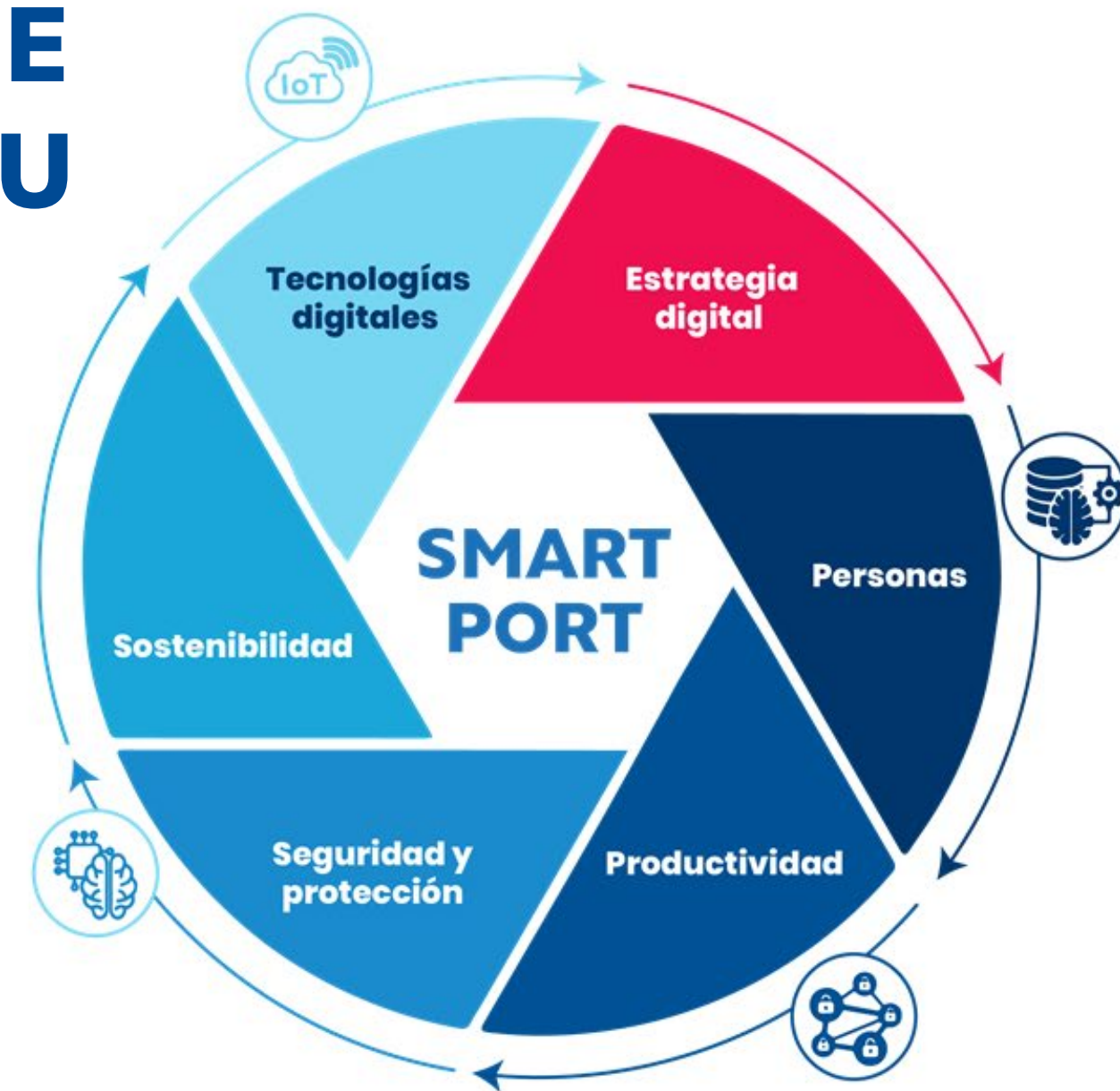
APN DIGITAL TRANSFORMATION VISION

Being the national reference entity in Digital Transformation that integrates the Port Community through technology



SMART PORTS IN THE MAIN PORTS OF PERU

Paíta, Matarani, Salaverry, Ilo y Pisco



DIGITAL PORT TRANSFORMATION OF THE NATIONAL PORT SYSTEM OF PERU

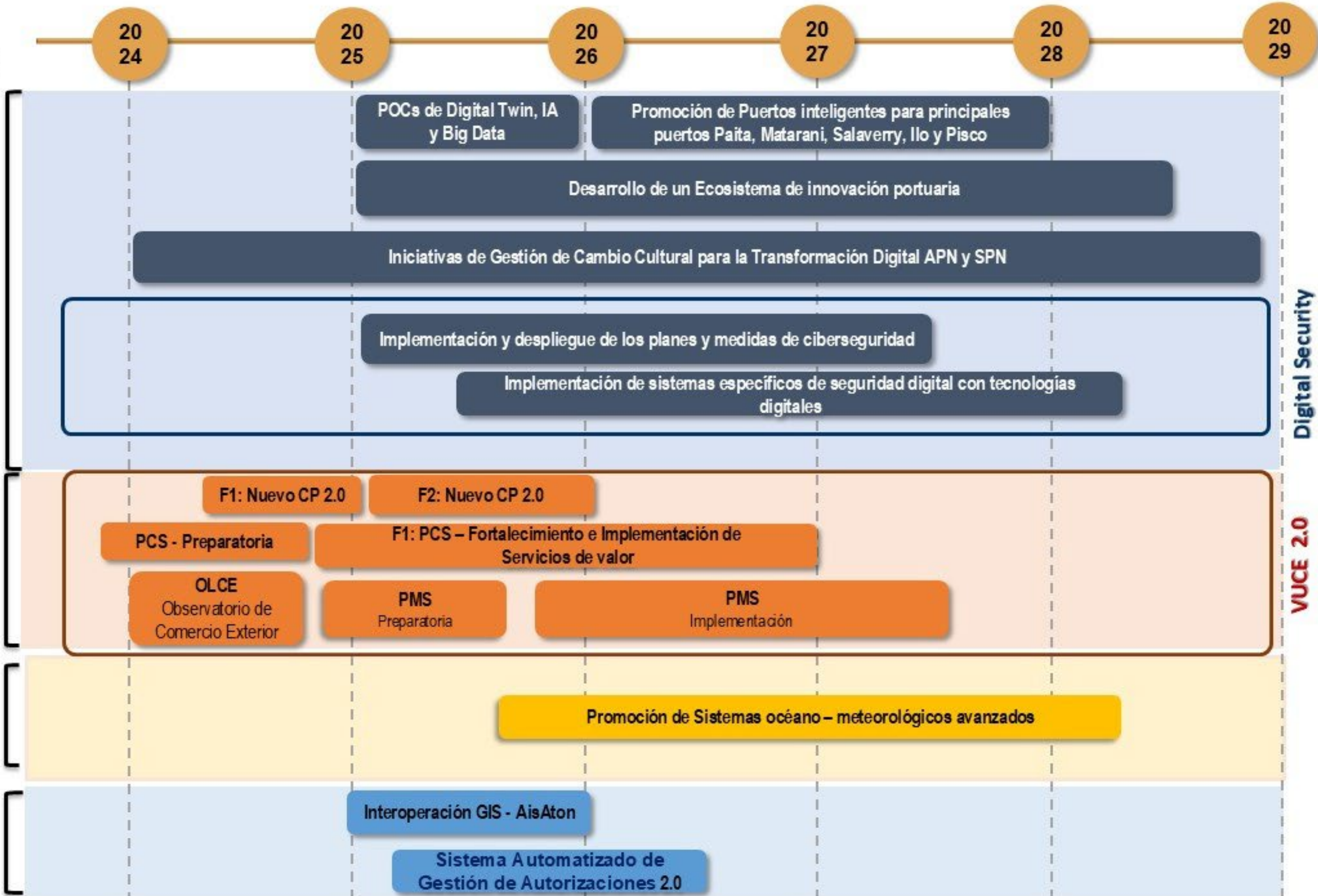
TECHNOLOGY PROJECTS ROADMAP PNPD 2024 - 2028

Smart Ports Program

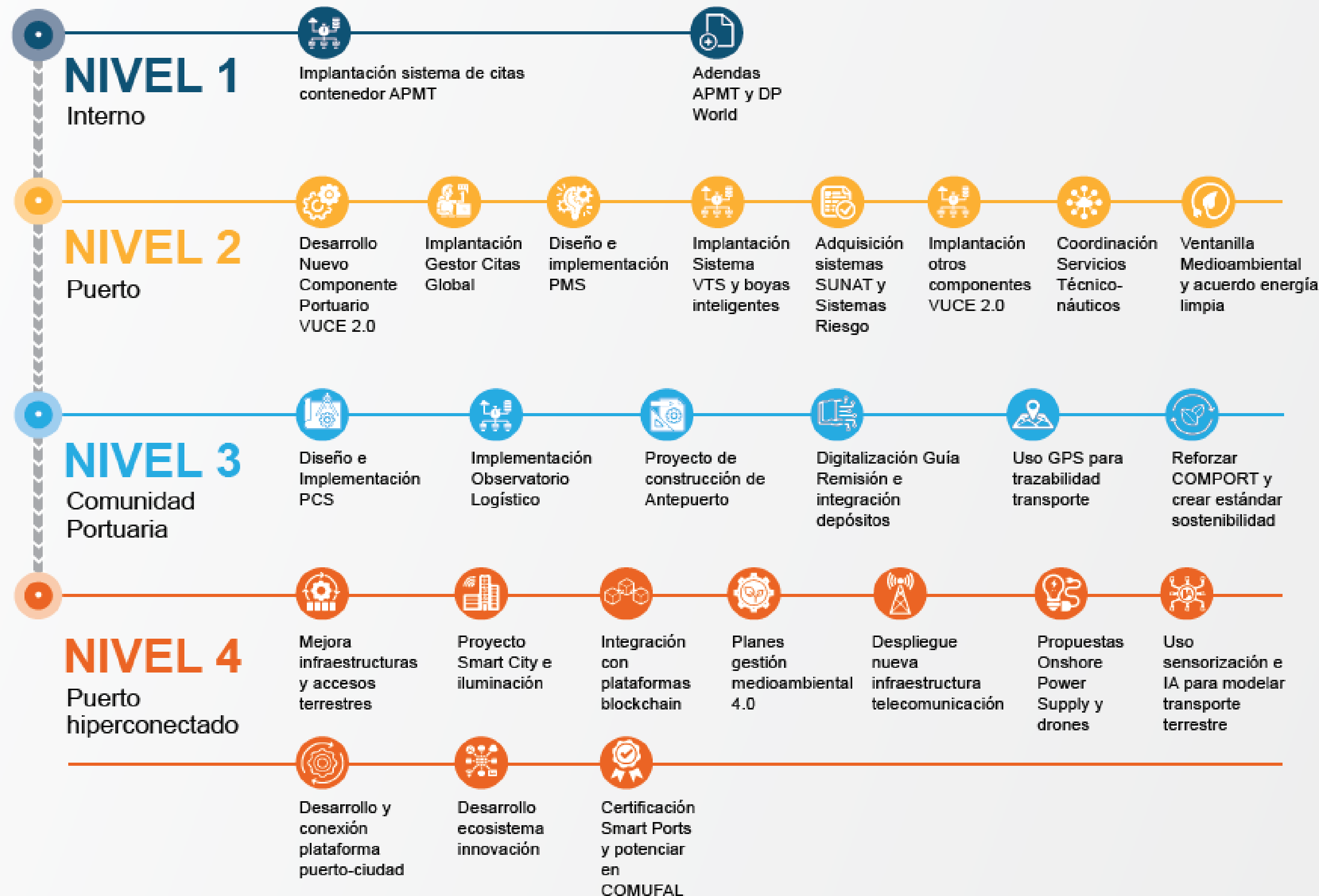
Technological Platforms

Advanced Ocean- Meteorological Systems

Interoperable Systems for Port Operational Continuity



ACTION PLAN - ROAD MAP IN THE MAIN PORTS OF PERU

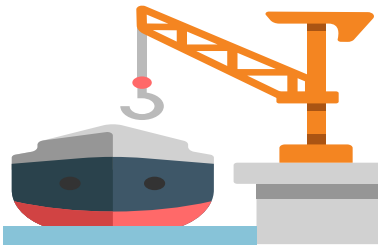
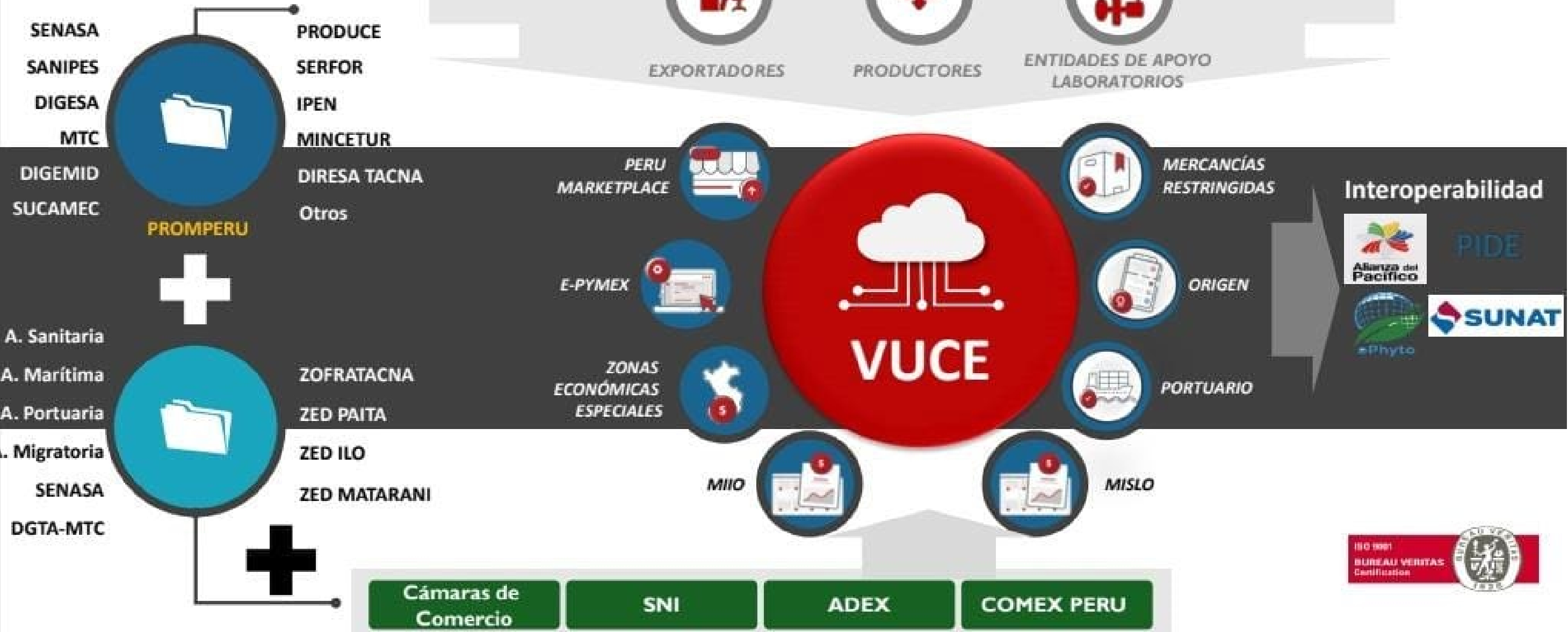


NOTA: El Puerto del Callao presenta un elevado grado de madurez a nivel interno. Por ello, el número de iniciativas a realizar dentro de este nivel es inferior al del resto de niveles.



ACTION PLAN - VUCE 2.0 Single Window

Ventanilla Única de Comercio Exterior VUCE



- OLCE
- CP 2.0 (SW)
- PCS
- PMS



| Proyecto VUCE 2.0 Performance de la VUCE acumulado hasta mayo 2024

Trámites

- + 7'50,000** trámites (restringidos, origen y portuario)
- + 117** Mil administrados en la VUCE (RUC)
- 386** Procedimientos Administrativos (MR+CO+CP+ZEE)
- +335 mil** e-docs en Alianza del Pacifico
- +1.714 millones** Documentos Resolutivos (DRs) enviados a SUNAT

Recaudación

- S/ 1,450** Millones en recaudación total de tributos
- 53%** Pago electrónico, **47%** Pago ventanilla (2023) y otros
- S/ 1,340** Millones en ahorros de recursos

Indicadores

- +28 mil** personas capacitadas
- 21** entidades públicas y **22** entidades certificadoras
- 74 %** Reducción del tiempo del 2014 -2023
- 57** millones de folios de papel no impresos
- 6,385** árboles no talados
- 6,513** TN de Huella de Carbono (CO2) por desplazamientos
- 2,000** Empresas registradas en el e-Pymex y Perú Marketplace

Certificaciones



ISO 9001 : 2015

EMERGING TECHNOLOGIES FOR THE SMART PORT



WHERE DATA BECOMES KNOWLEDGE

Digital Twin,
Advanced analytics, ...



WHERE DATA BECOMES TRUSTWORTHY

Digital platforms, blockchain,
digital signatures, API managers, ...



WHERE THE PHYSICAL WORLD JOIN WITH THE VIRTUAL WORLD

Autonomous systems, Digital
Twin, Drones, ...



WHERE DECISIONS ARE ASSISTED AND SYSTEMS ARE AUTONOMOUS

Robotics, automatization,
cognitive technology,...



WHERE SYSTEMS ARE VISIBLE AND INTUITIVE AND USER EXPERIENCE IS KEY

Virtual reality, augmented
reality, control tower,...



WHERE DIGITAL ASSETS ARE PROTECTED FROM CYBER ATTACKS

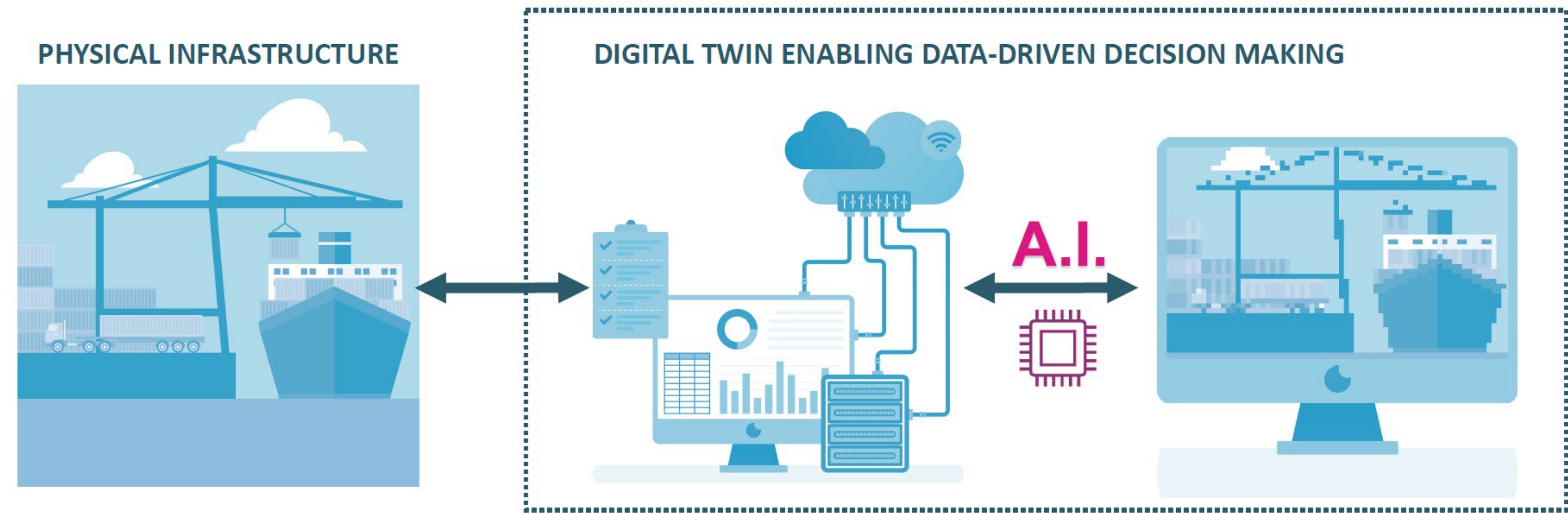
Robotics, automatization,
cognitive technology,...



EXPONENTIAL TECHNOLOGIES:

The SmartPort ‘promised land’

Digital Transformation as catalyst towards Supply Chain visibility, flexibility and predictability



Challenges and Opportunities



PERÚ

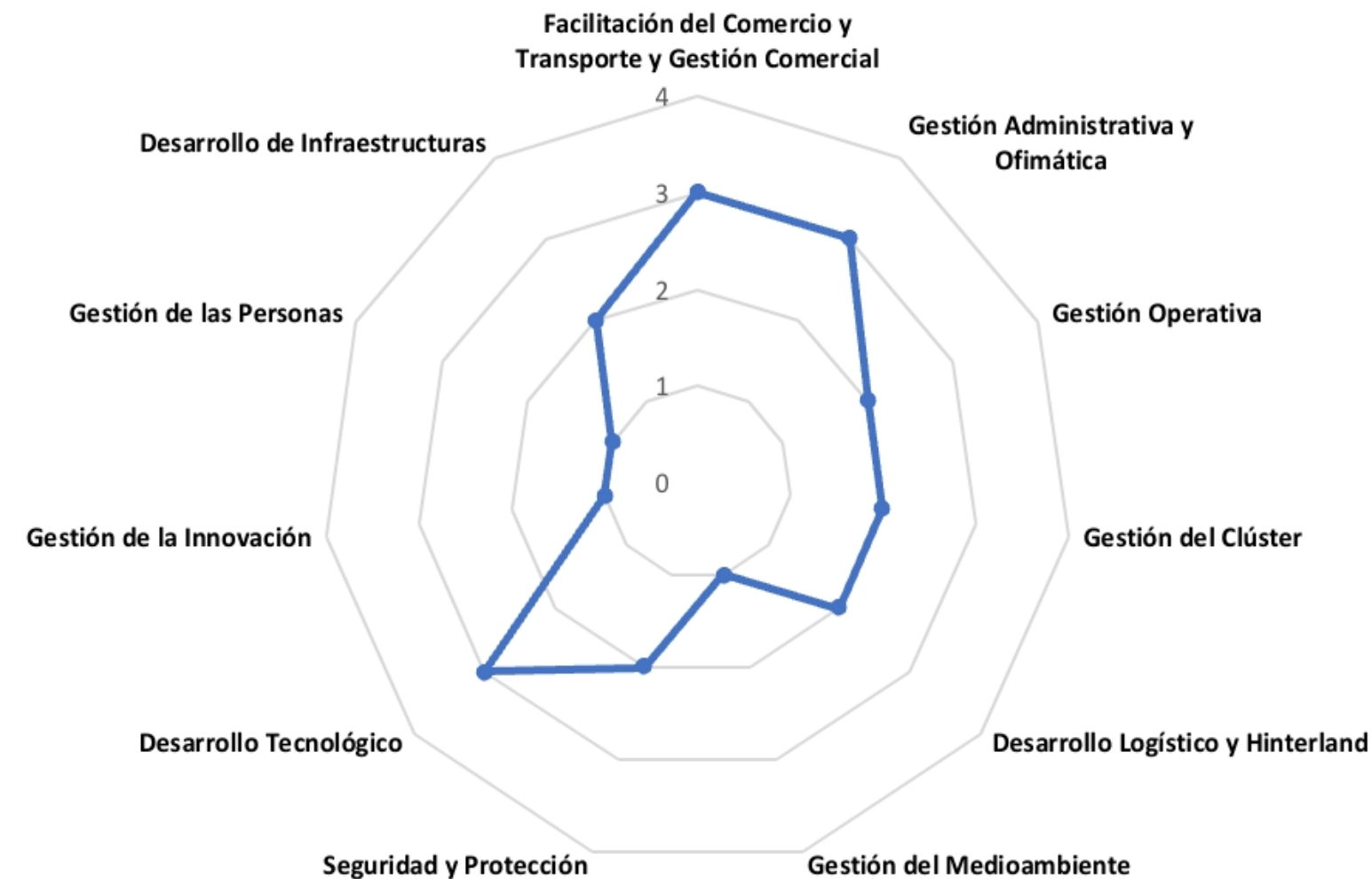
Ministerio de Transportes y Comunicaciones

Autoridad Portuaria Nacional

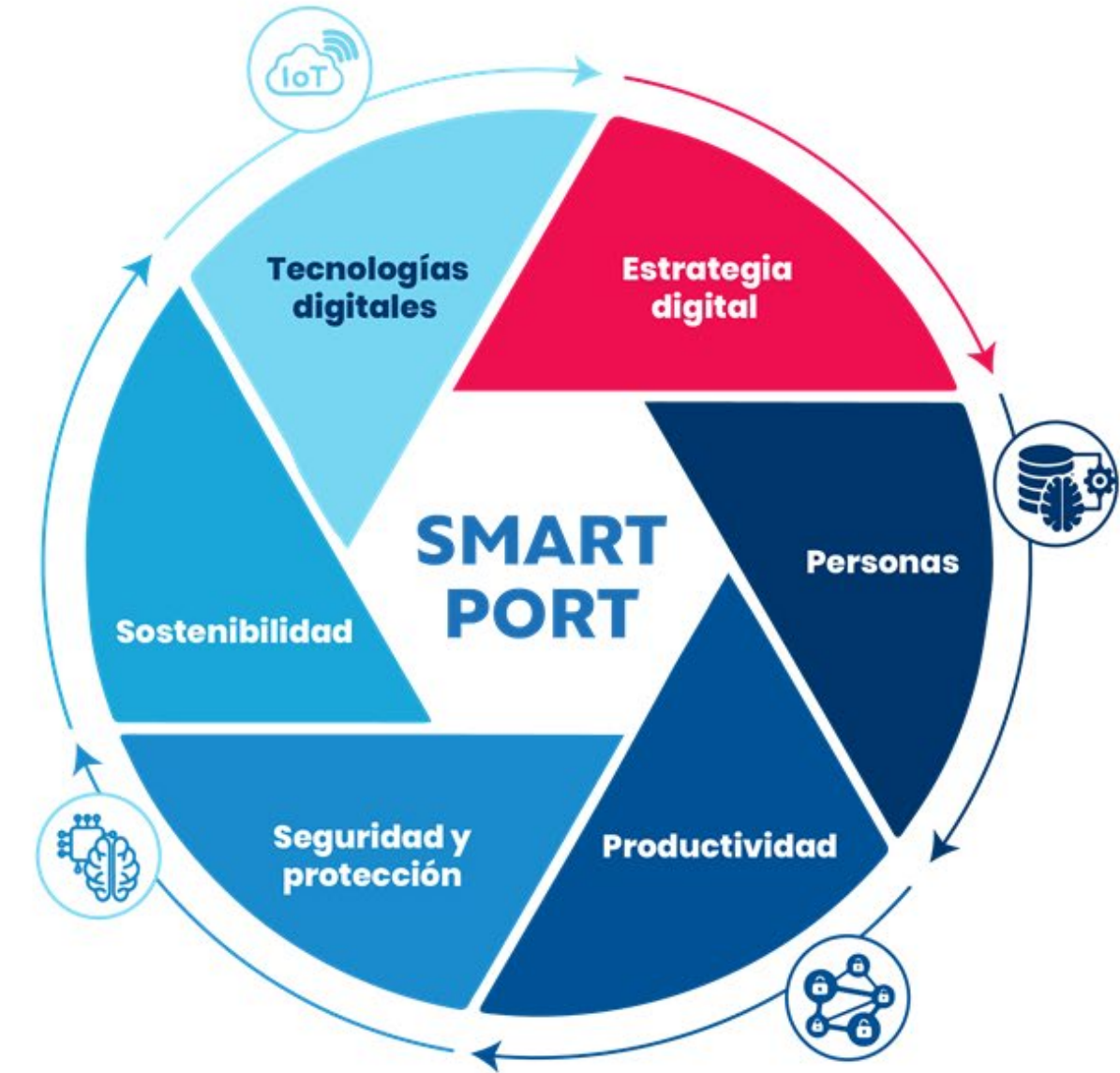


BICENTENARIO PERÚ 2024

Grado de Madurez (Micro)

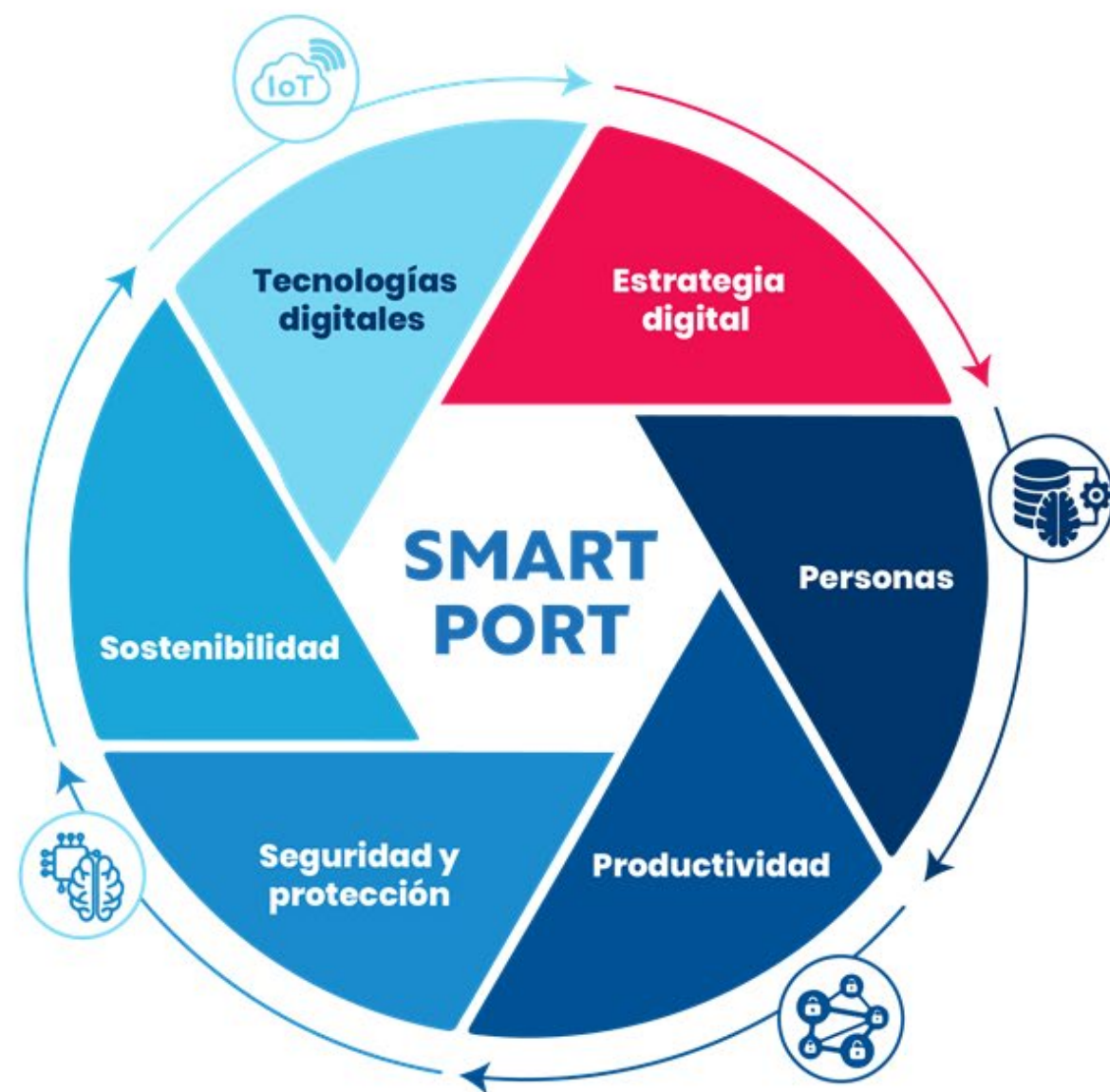


- 1: Objetivo identificado
- 2: Objetivo definido
- 3: Objetivo en ejecución
- 4: Objetivo conseguido



TOC
AMERICAS

TIANJIN SMART PORT SAILS INTO THE FUTURE IN CHANCAY SMART PORT PERU



https://youtu.be/8jDNk_pHl8c

CHALLENGES AND OPPORTUNITIES



Necessary Investment



Management and Change of Innovation



Social Rejection



Technological Challenge



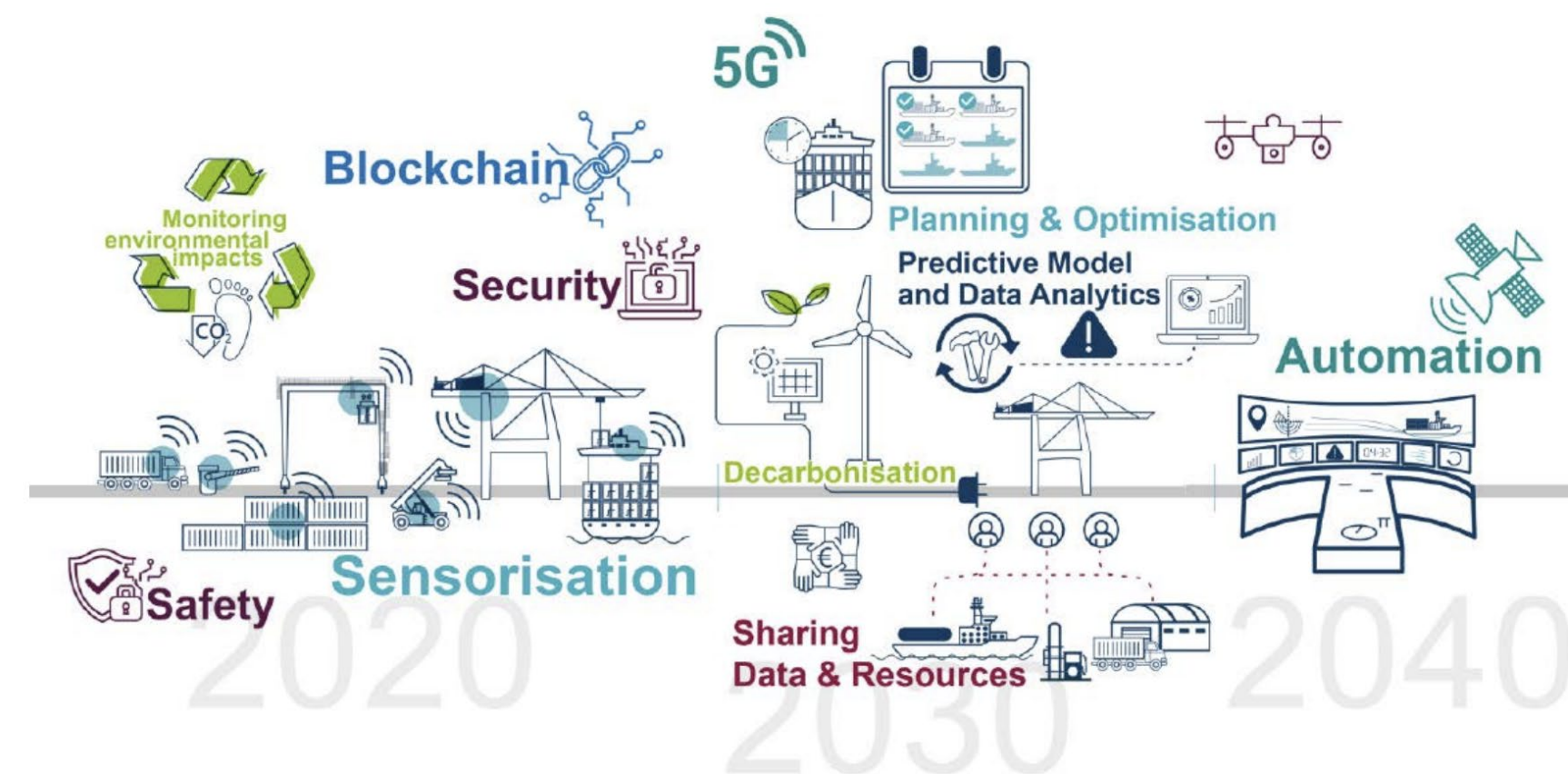
Cybersecurity



Collaborative Work



Qualified Personnel



TOC
AMERICAS

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**“There is no Smart Port
without Smart People”**

THANKS

Mariela Gutarra Ramos
Government And Digital Transformation Leader
National Port Authority of Peru

President of WISTA PERU


WISTA
Perú

