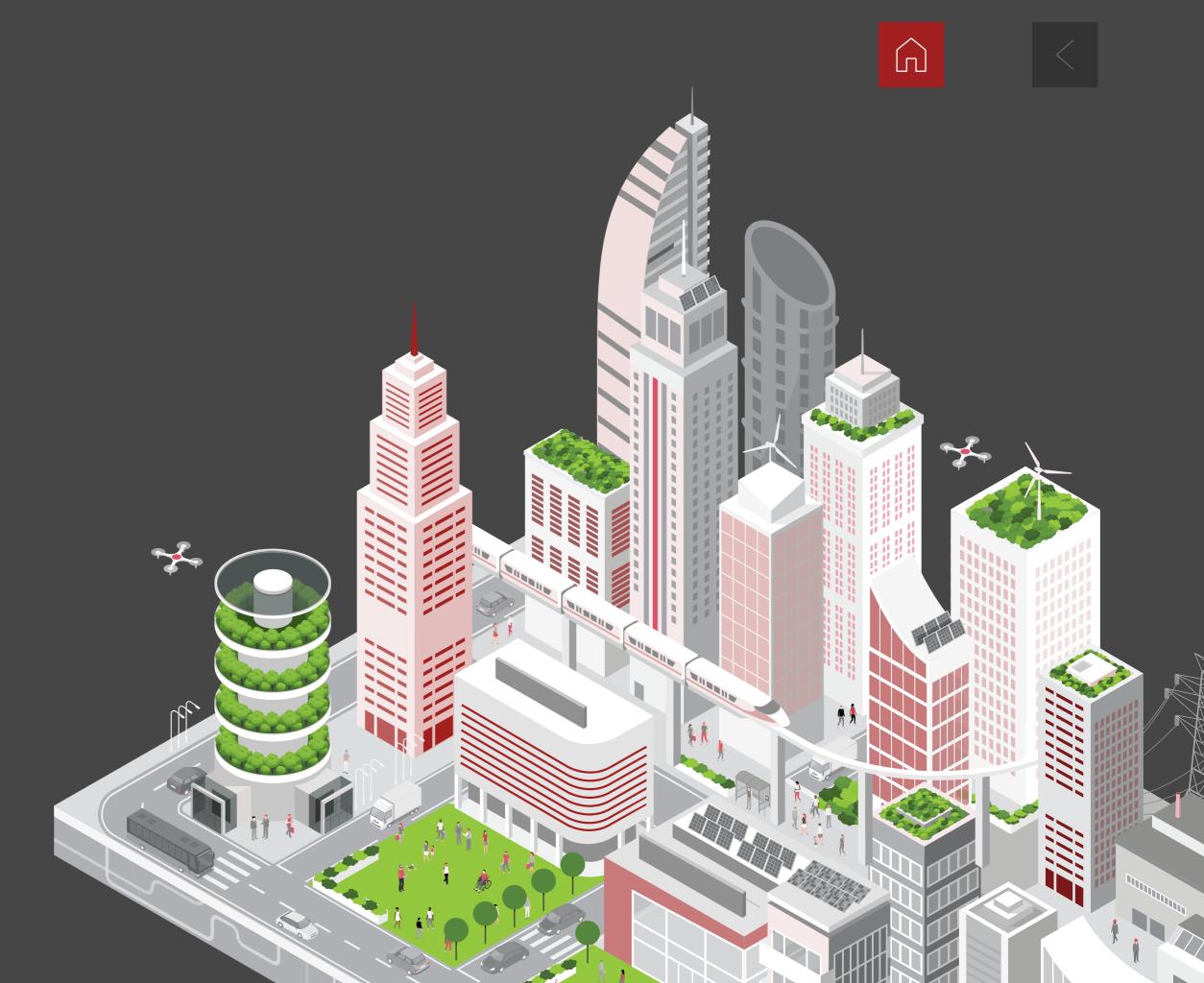


Society 5.0

A human-centered society that bridges the physical and digital worlds



Global Manufacturing & Industrialisation Summit



Contents

The future of society

Society 5.0 is a human-centered approach that uses integrated innovative digital solutions to promote citizens' holistic well-being. The concept emerged in Japan to define the next phase of social development. Society 5.0 aims to bridge the gaps between:

- The physical and the digital worlds
- The urban and the rural worlds
- The high-income and the low-income
- Other socio-economic and environmental disparities and barriers



Society 5.0 has the following features:



BORDERLESS AND DECENTRALIZED

Unlock an open, digital integrated society, share and connect solutions with decentralized applications.



RESILIENT AND ROBUST

Design for the **future** while ensuring an ability to withstand and minimize shock impacts and rapid bounce back.



HYPER-PERSONALIZED AND INTEGRATED

Tackle the needs of the different personas, personalize the end-to-end citizen journey across all sectors and well-being components.



PROACTIVE AND PREVENTIVE

Understand citizens' needs and identify and address potential challenges before they arise.





SUSTAINABLE AND HARMONIOUS

Ensure the sustainable utilization and allocation of resources, and mobilize them to achieve the highest and balanced use value.



SUPER-SMART AND KNOWLEDGE-INTENSIVE

Develop smart digital solutions that gather required data, analyze them and revert back with actionable solutions to citizens, autonomously.

An integrated and holistic well-being model

An integrated and holistic well-being mode

Society 5.0 is a holistic and cohesive model that secures and integrates 10 well-being components. Combined, these components lead to citizens' self-actualization.



Securing holistic well-being is broken down into 10 components, brought together in 4 complementary levers:

Healthy, safe, and active citizens

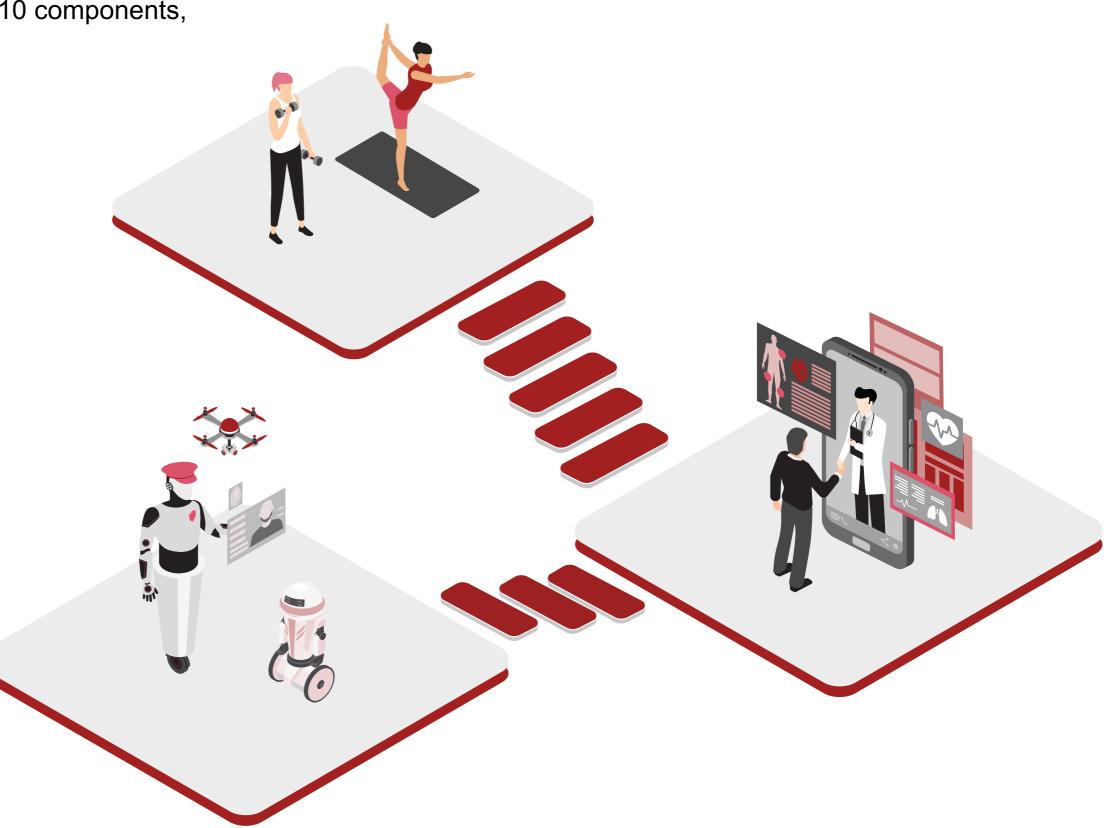


1. Physical and mental health

Virtual hospitals, surgical robots, and smart monitoring wearables enhance access to quality tele-health and personalized treatment protocols.

2. Safety and security

Al-powered predictive policing, policy robotics, and next generation surveillance, such as facial and mobility recognition provide integrated and real-time safety management for early disaster prediction and prevention, and prompt and safe evacuation.



Productive, empowered, competitive and creative citizens

3. Education

Education clouds and digital AI-enabled platforms tailor curricula to the needs and interests of each student and enable self-built curricula, life-long learning, and immersive and experimental environments.

4. Work and living standards

Targeted AI-enabled job matching platforms connect potential employees with employers and provide personalized career coaching, trainings, and learning factories (real-world of work training simulations).

5. Economy and innovation

Industry 4.0 sectors and smart manufacturing promote economic diversification and supply chain localization. Virtual banks enable digital financial services.

Engaged and entertained citizens with a sense of belonging

6. Community support



Social reintegration platforms connect marginalized members of society (such as ex-prisoners or people with substance abuse problems), with therapists, employers, and volunteers. They also help create a digital networking community to assist these people become part of the social mainstream. Social security technologies facilitate the targeting of social assistance and payments. Digital resource distribution channel various surpluses, such as financial and utilities, to people in need.

7. Culture and entertainment

Virtual tourism, and immersive and interactive leisure and sports promote citizen engagement through real-life simulations. Heritage tech-preservation helps conserve tangible and intangible heritage assets.



Comfortable and thriving citizens in a sustainable and automated environment

8. Natural environment

Autonomous farming, vertical farms and hydroponic greenhouses increase food production and reduce resource consumption. Renewable technologies and smart resource management solutions facilitate the sourcing, allocation, and sustainable consumption of water, energy and food for deprived areas and population segments that are in need. Drone reforestation, smart wildlife protection, and robotic animals monitor and protect wildlife and forests.

9. Urban environment

Green buildings and smart technologies optimize sustainable urban design and spatial planning, and increase infrastructure robustness and resilience.

10. Logistics and mobility

Anticipatory logistics and mobility, smart traffic management, and vehicles of the future, such as hyperloops, self-driving cars, and drone assisted deliveries enhance connectivity and road safety.

Green buildings and smart technologies will optimize sustainable urban design and spatial planning.



A recreated life

Integrating sectoral solutions could redesign and recreate citizens' daily lives, notably for the personas facing the most challenges today.

Experience the Society 5.0 model and explore the personas.

Click here

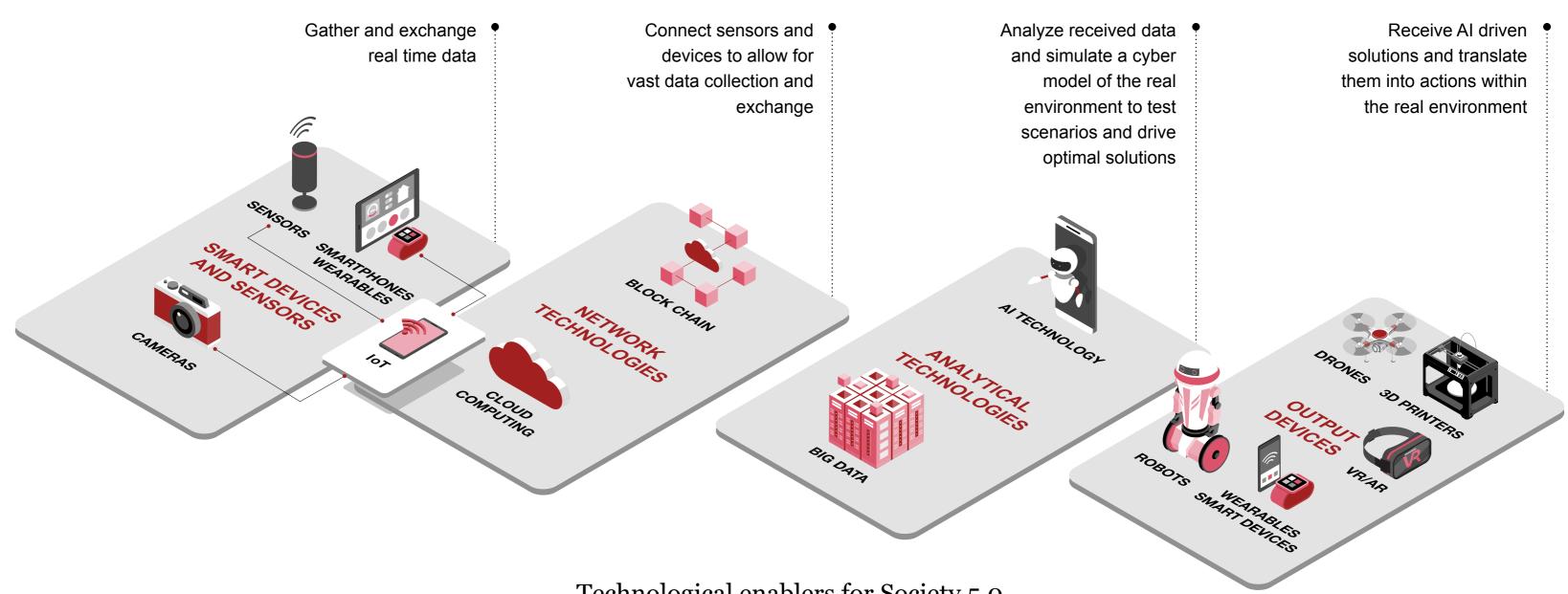
A recreated life

Six enablers for these journeys

Six enablers for these journeys

1. Emerging technology and infrastructure

Advanced analytical technologies and sophisticated network systems allow the collection and analysis of vast amounts of data, identify their interconnections, eliminate restrictions of space and time, and simulate scenarios that are translated into automated and adaptable solutions in real time.



Technological enablers for Society 5.0

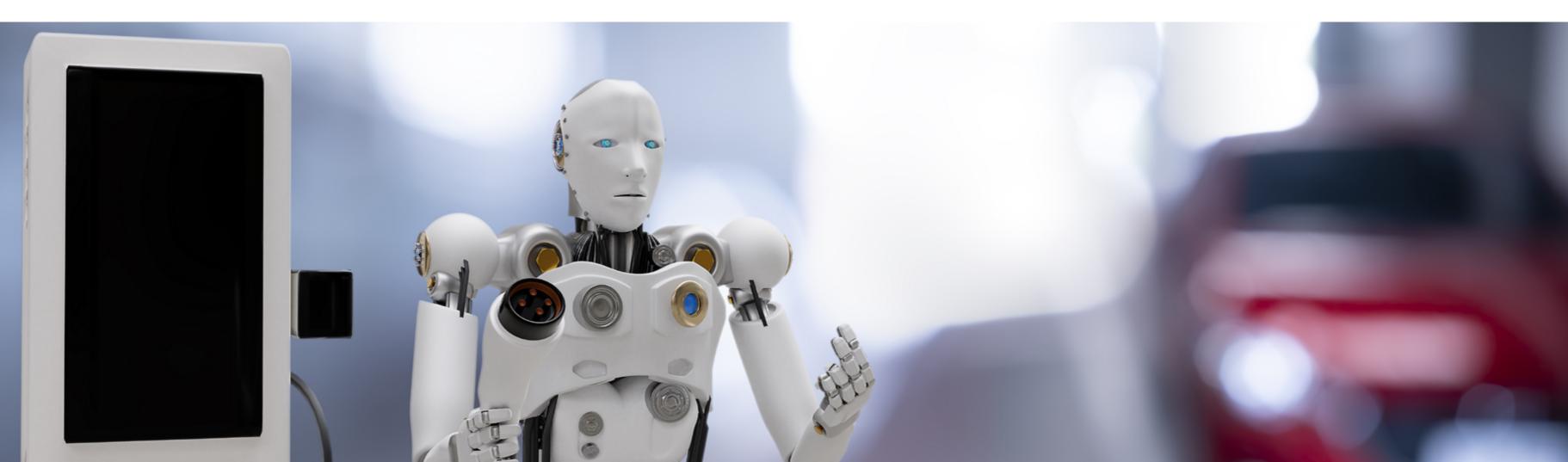
2. Platforms

Cross-sectoral platforms streamline citizen, and decision maker-experiences by using:

- Digital twins that provide a virtual representation of cities and integrate insights across the different domains and sectors. These create a real-time digital counterpart of the physical objects or processes.
- Digital IDs
- Facial and movement recognition
- E-payment platforms

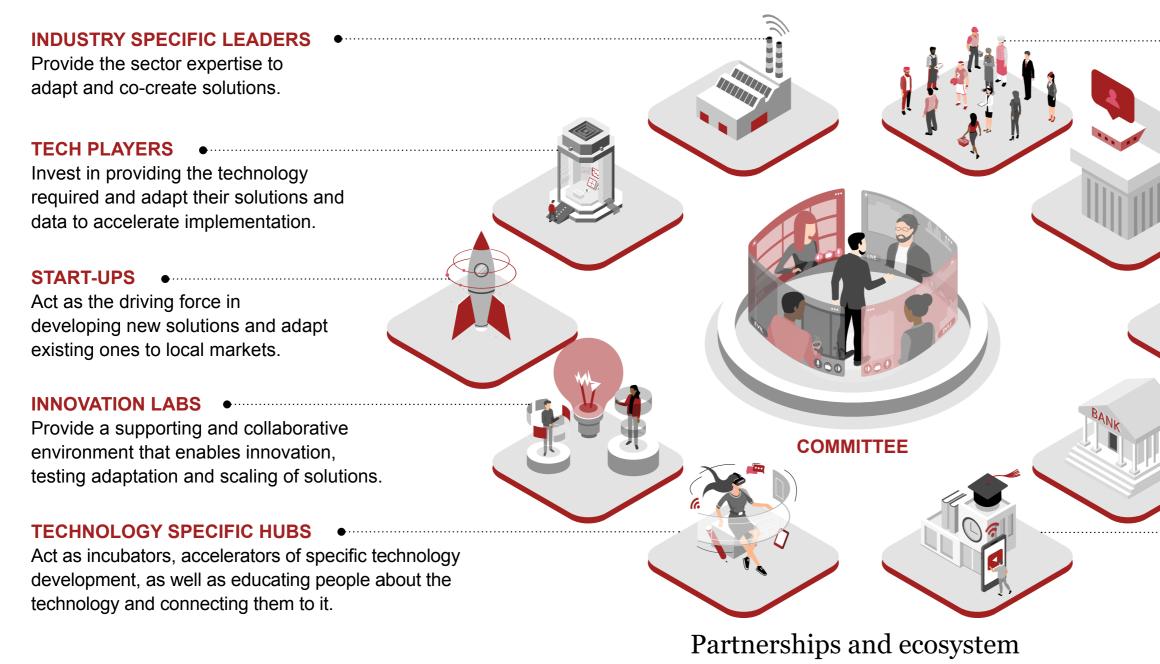
3. Regulations and policies

These are needed to ensure privacy, security, fair competition, accountability and transparency, and ethics. Technology standards should be consistent with global guidelines to allow solutions to be scalable. Regulatory sandboxes also enable the piloting and testing of technologies, thereby fostering innovation.



4. Centralized and collaborative governance

A central champion, potentially a Society 5.0 committee, could lead the Society 5.0 agenda and set a common vision for all players to follow. It oversees plans and budgets, reviews and monitors Society 5.0 sectoral plans, ensures the right enablers are in place, identifies potential synergies and cross-cutting projects, and facilitates knowledge transfer. The Society 5.0 model also relies on creating a collaborative network that encourages co-creation and solution implementation with citizens, the private sector, and academia.



CITIZENS Engage to shed light on challenges, interpreting exploring in terms

contribute to innovative solutions in terms of skills and ideas, and co-find solutions.

• PUBLIC ENTITIES

Institute the right regulations and establish systems and foundations to enable the sharing and transfer of resources throughout the ecosystem.

Provide experience in implementing various projects, especially in remote areas or with less represented demographics.

• FINANCIAL INSTITUTIONS

Allocate and secure capital to drive the development and implementation of solutions at scale.

ACADEMIC INSTITUTIONS

Provide academic resources, and research and development capabilities to accelerate innovation potential.

5. Talent with strong digital capabilities

Governments need to secure talent with development and application capabilities, able to research, innovate, design, prototype, and test potential solutions. They also need to educate the public about how to navigate the new ways of living and working.



DEVELOPMENT

- Hardware developers
- Designers (eg. UI/UX)
- Software developers
- Researchers
- Emerging tech (AI, 3D) specialists
- Computer engineers / Scientists
- Data analysts / Scientists
- Entrepreneurs



APPLICATION

- Services manager
- Digital marketing manager
- Sales development / Customer specialists
- Cybersecurity specialists
- Data management specialists
- Telecom / Network operators
- Installation and maintenance
- Digital and technology trainers



USAGE

- Consumers
- Employees in digital jobs
- Data providers
- Students
- Government entities
- Service providers
- General public

6. Innovative, participatory funding models

Different models need to be adopted to secure the financing of the design and development of the solutions needed for Society 5.0.







Bond-issuing organizations raise funds which are distributed to service providers to cover their operation costs. If predetermined outcomes are achieved, the commissioner proceeds with payments to the bond-issuing organization or investors.

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PAY FOR SUCCESS

Investor only pays for programs if they meet agreed-upon results, typically incorporating social and / or environmental predetermined outcomes.

BLENDED FINANCING

Public-private partnerships that can leverage technical capabilities and wide knowledge bases for targeted investments and returns.

IMPACT BONDS

INNOVATION / R&D FUNDS

Grant funding that give groups and organization financial backing to find innovative ways of tackling policy problems.

CROWDFUNDING

Mechanism where society 5.0 stakeholders (usually citizens) contribute small amounts of capital to finance large projects.

Conclusion

Society 5.0 is the next model of social design. It seeks to address citizens' well-being challenges, and overcome the various divisions and barriers that are so common today, by using the power of technology and data.

Conclusion

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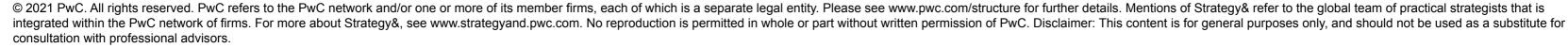


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