



**SMART —
NETWORKS
& SERVICES**

SMART NETWORKS AND SERVICES PARTNERSHIP - OVERVIEW -

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Smart Networks and Services Task Force

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SNS PROGRAMME PROPOSAL



Draft proposal for a

European Partnership under Horizon Europe

Smart Networks and Services

Version 30 June 2020

Summary

The European communication networking and services sector is proposing the Smart Networks and Services Partnership to secure European leadership in the development and deployment of next generation network technologies and services, while accelerating European industry digitization. It will position Europe as a lead market and positively impact the citizens' quality of life, while boosting the European data economy and contributing to ensure European sovereignty in critical supply chains.

This document is supported by



- Proposal supported by different communities
 - representing significantly more than 1000 organisations from
 - Industry
 - SMEs
 - Research community (R&D centers and universities)
- Proposal is allocated to
 - Horizon Europe
 - cluster “Digital, Industry and Space”
 - area of Intervention “Next Generation Internet” as the center of gravity
 - with some links to other areas such as “Key Digital Technologies” and “Artificial Intelligence” in other Areas of Intervention
 - CEF – Connected Europe Facility, sub-program on 5G deployments at major European transport routes
- All partnership proposals published at
 - https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme/european-partnerships-horizon-europe_en
 - https://ec.europa.eu/info/sites/info/files/research_and_innovation/funding/documents/ec_rtd_he-partnership_smart-networks-services.pdf

Source: SNS proposal. June 30, 2020, https://ec.europa.eu/info/sites/info/files/research_and_innovation/funding/documents/ec_rtd_he-partnership_smart-networks-services.pdf

SNS PROGRAMME PROPOSAL: CHALLENGING AREAS AND EXPECTED IMPACT



Source: SNS proposal. June 30, 2020, https://ec.europa.eu/info/sites/info/files/research_and_innovation/funding/documents/ec_rtd_he-partnership_smart-networks-services.pdf

OBJECTIVES

GENERAL OBJECTIVE



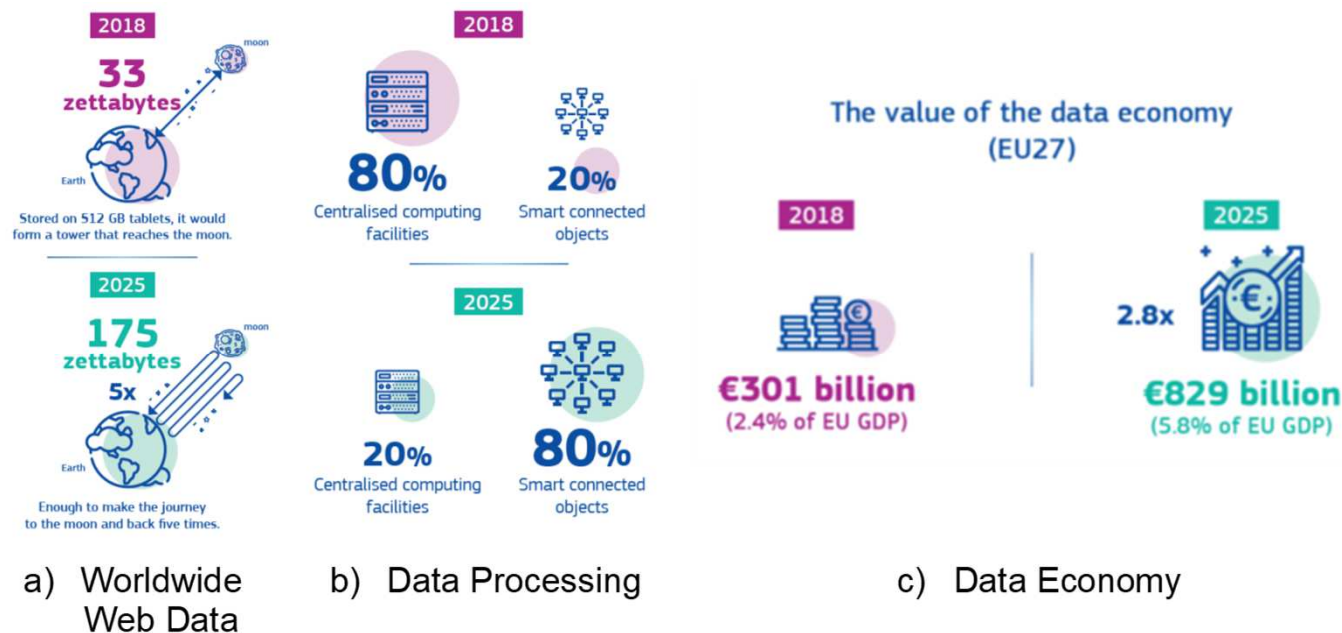
- A key goal of the SNS Partnership is
 - to define and implement the research, innovation and deployment roadmaps that will enable Europe to lead in the creation of the next generation of smart network technologies and services.
 - These will be designed and implemented in such a way that European values like security and privacy are safeguarded and European technological sovereignty is further strengthened.
 - The Partnership will also focus on the full digitization of European society including vertical industries and public administration.
 - Thereby, the SNS Partnership targets to have a positive impact on the quality of life for European citizens and boost the European data economy.

Source: SNS proposal. June 30, 2020, https://ec.europa.eu/info/sites/info/files/research_and_innovation/funding/documents/ec_rtd_he-partnership_smart-networks-services.pdf

OBJECTIVE 1 – FULL INDUSTRY DIGITIZATION AND SUPPORT OF VERTICAL INDUSTRIES



- To provide and validate (in trials and pilots) the enablers and solutions for full digitization of the European vertical industries in order to improve the business operation.

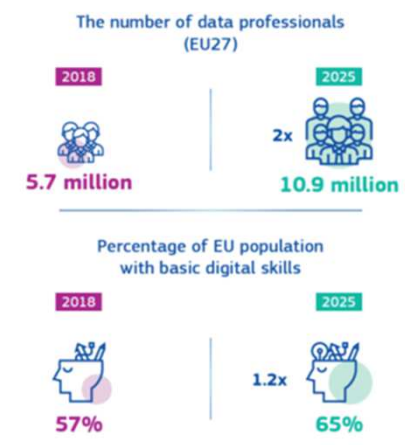
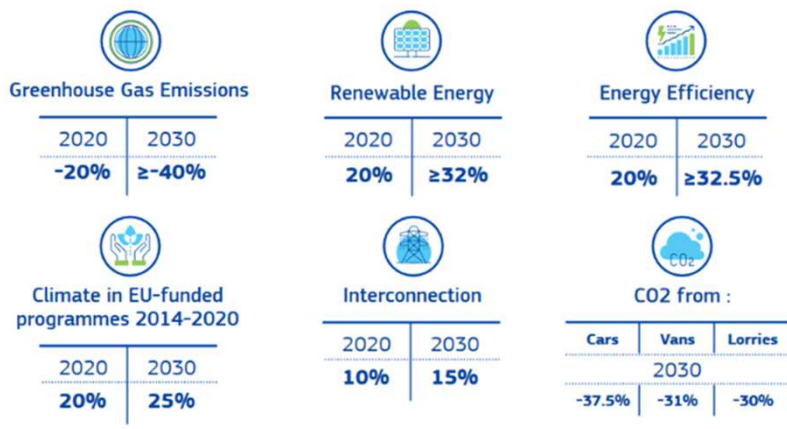


Source: SNS proposal. June 30, 2020, https://ec.europa.eu/info/sites/info/files/research_and_innovation/funding/documents/ec_rtd_he-partnership_smart-networks-services.pdf and [51] to [53] in the SNS proposal

OBJECTIVE 2 – SOCIETAL AND POLITICAL ASPECTS



- To foster the development and adoption of technologies and solutions that will help to address societal challenges that can directly or indirectly contribute to
 - Achieve EU Green Deal's targets and United Nations SDGs' goals.
 - Enable Europe to reach digital autonomy and technology sovereignty.
 - Ensure that digitization of our society will be done in a secure way to retain Europe's leading position in trust and privacy.
 - Create high-skill jobs and social inclusive technologies.



Source: SNS proposal. June 30, 2020, https://ec.europa.eu/info/sites/info/files/research_and_innovation/funding/documents/ec_rtd_he-partnership_smart-networks-services.pdf and [14], [17], [19], [51] to [53] in the SNS proposal

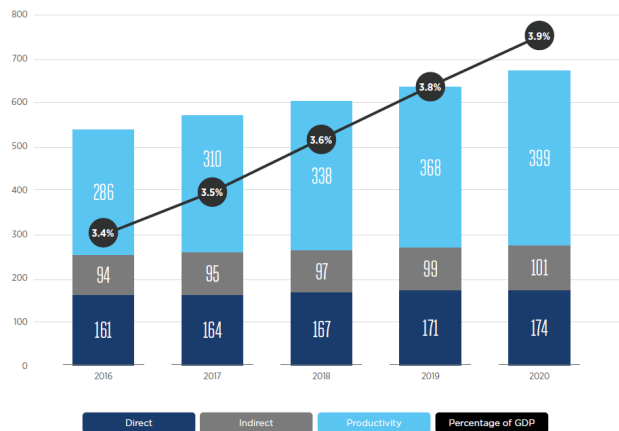
OBJECTIVE 3 – BUSINESS ASPECTS – EUROPE’S SHARE ON THE GLOBAL MARKET



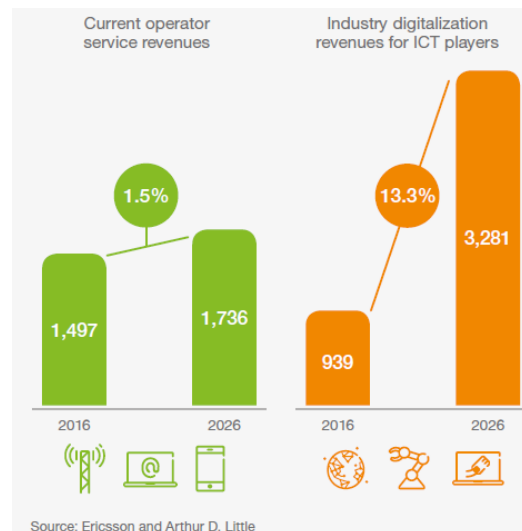
- To ensure European leadership in the ICT sector and mobilize cross-disciplinary private sector forces to build solutions that will improve the operation of European vertical industries.

Figure 15 Source: GSMA Intelligence

Outlook to 2020
(€ billion, % of GDP)

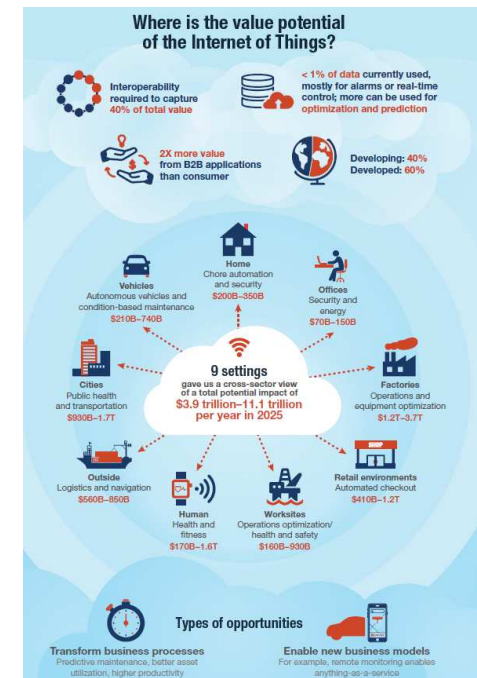


Total (direct, indirect and productivity) contribution to GDP (€ billion, % 2016 GDP)



Revenue forecast (CAGR 2016 – 2026, US-\$ billion)

Where is the value potential of the Internet of Things?

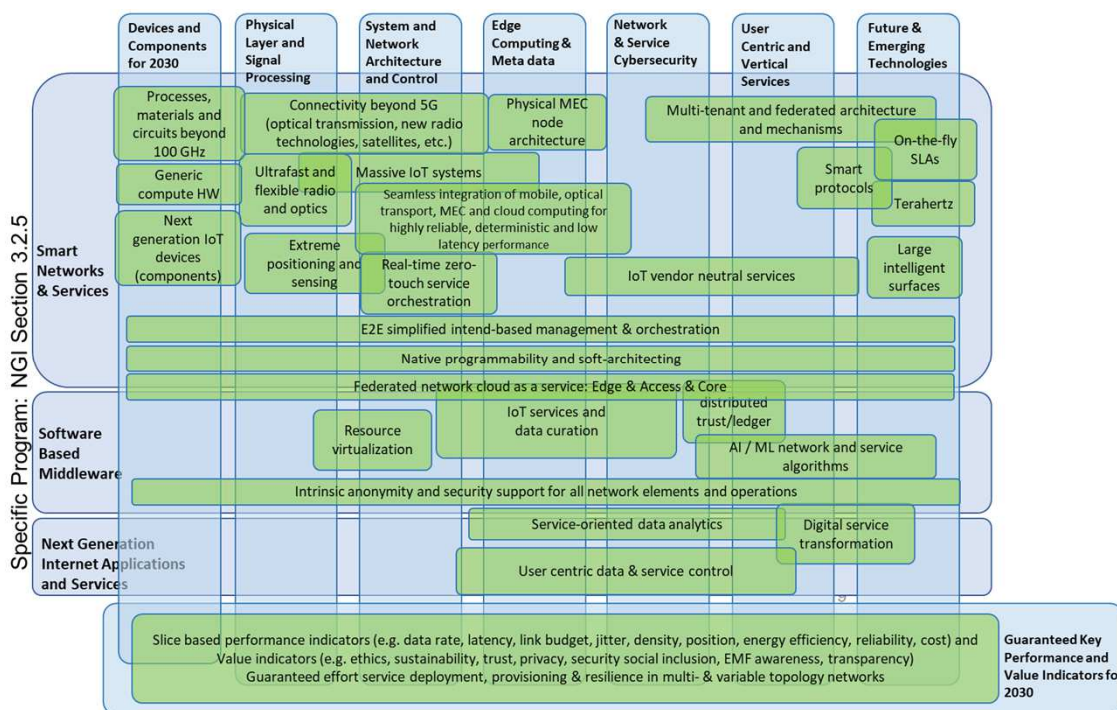


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 GSMA The Mobile economy report 2017, <https://www.gsmainelligence.com/research/?file=89a59299ac2f37508b252124726a1139&download>.
 Ericsson: The 5G Business Potential. 2017, https://www.ericsson.com/assets/local/news-and-events/events/2017/mwcs-2017/topic-3_ericsson_5g_business_potential.pdf.
 McKinsey & Company: The Internet of Things: Mapping the value beyond the hype. McKinsey Global Institute, June 2015. https://www.mckinsey.de/files/unlocking_the_potential_of_the_internet_of_things_full_report.pdf.

OBJECTIVE 4 – B5G SYSTEMS DESIGN AND SUPPORT OF EMERGING APPLICATIONS



- To research, develop and validate the next generation of telecommunications networks and support emerging services, while enabling networks to efficiently support any service to be provisioned under all relevant environments.



Strategic Research and Innovation
Agenda
(published at Network2020 ETP website):
<https://bscw.5g-ppp.eu/pub/bscw.cgi/d367342/Network2020%20RIA%202020%20Final%20Version%202.2%20.pdf>



Adobe Acrobat Document

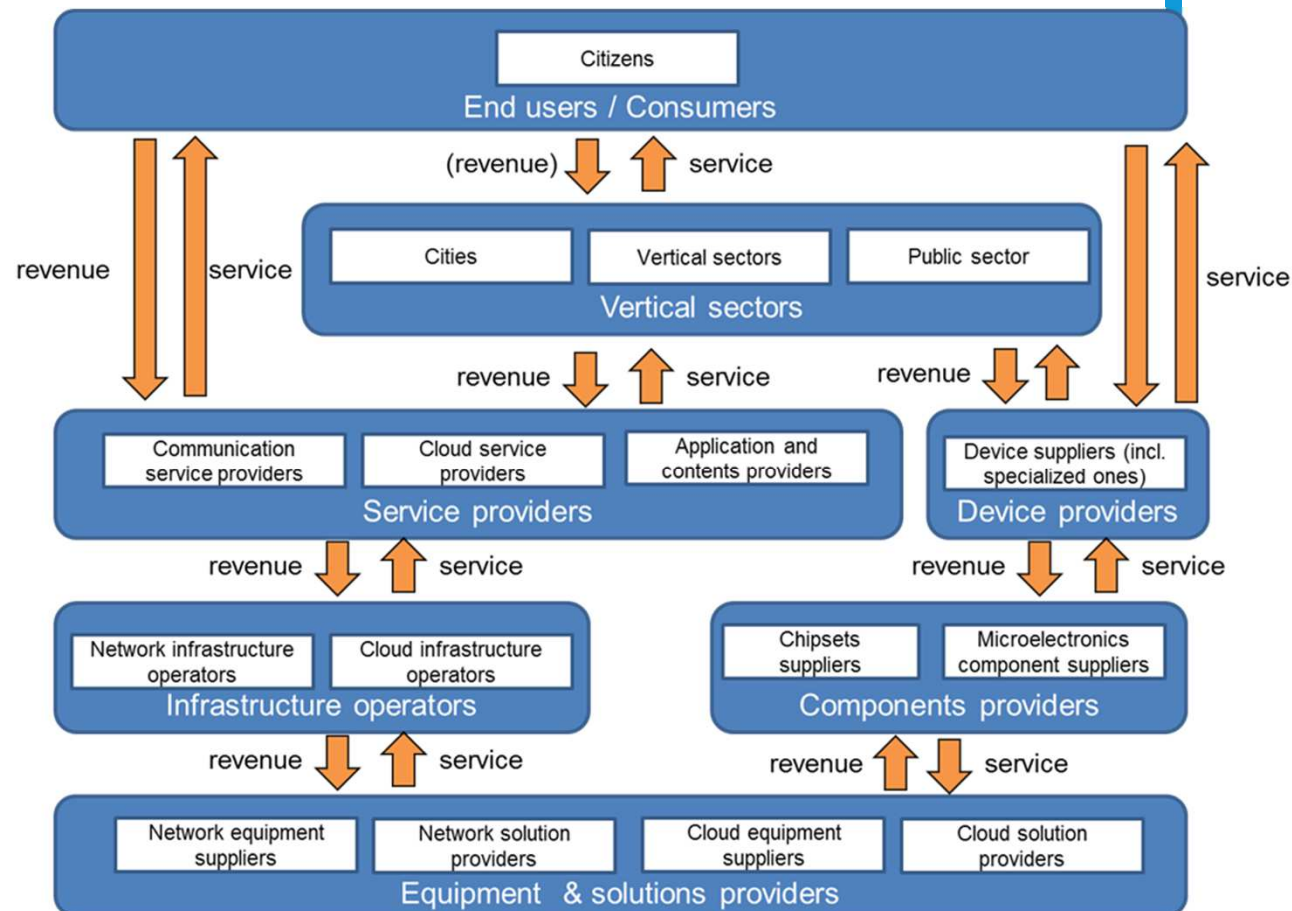
SNS Annex:



Adobe Acrobat Document

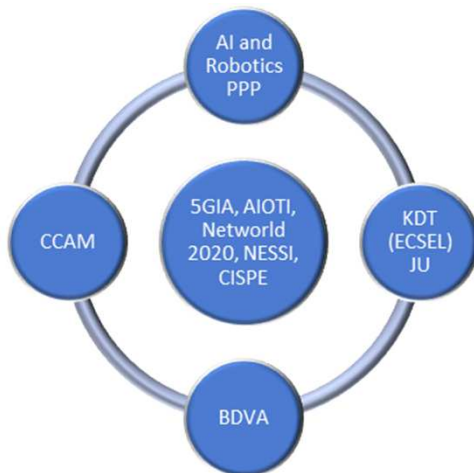
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VALUE-CHAIN APPROACH AND INVOLVED STAKEHOLDERS

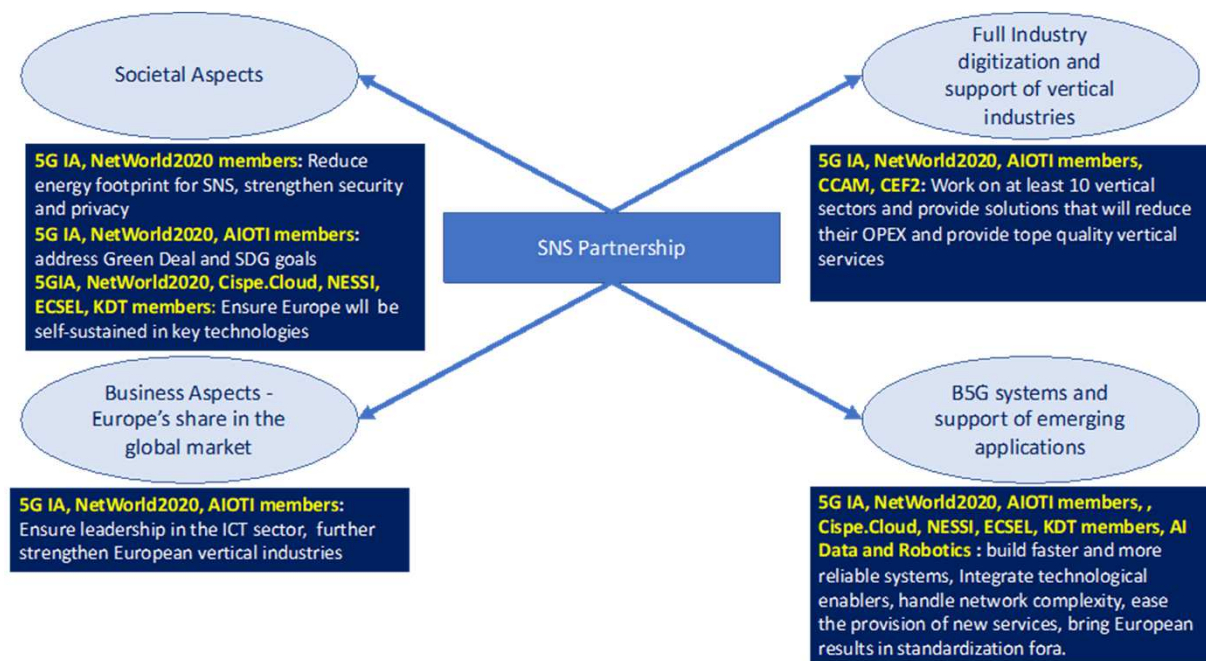


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STAKEHOLDER INVOLVEMENT



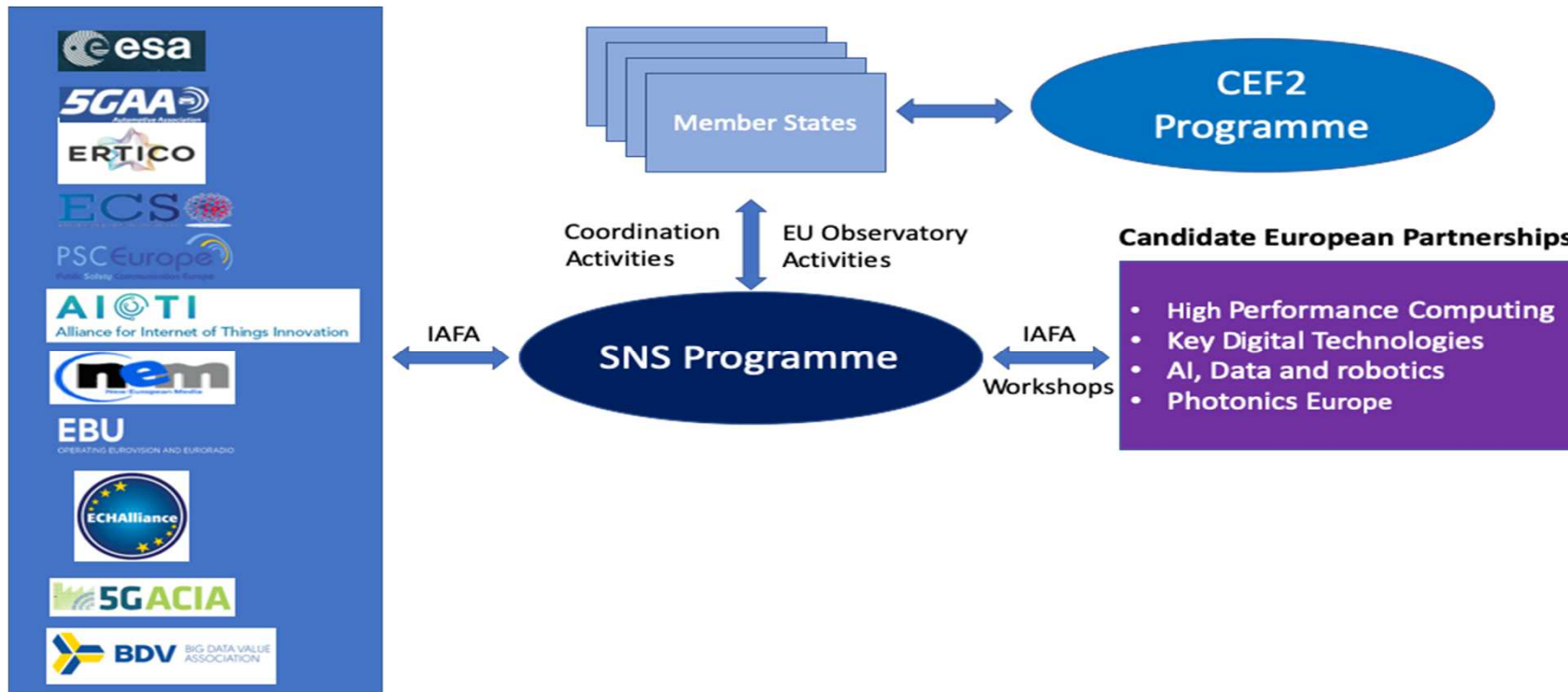
Different tiers of stakeholder involvement



SNS stakeholder and their link to Partnership's objectives

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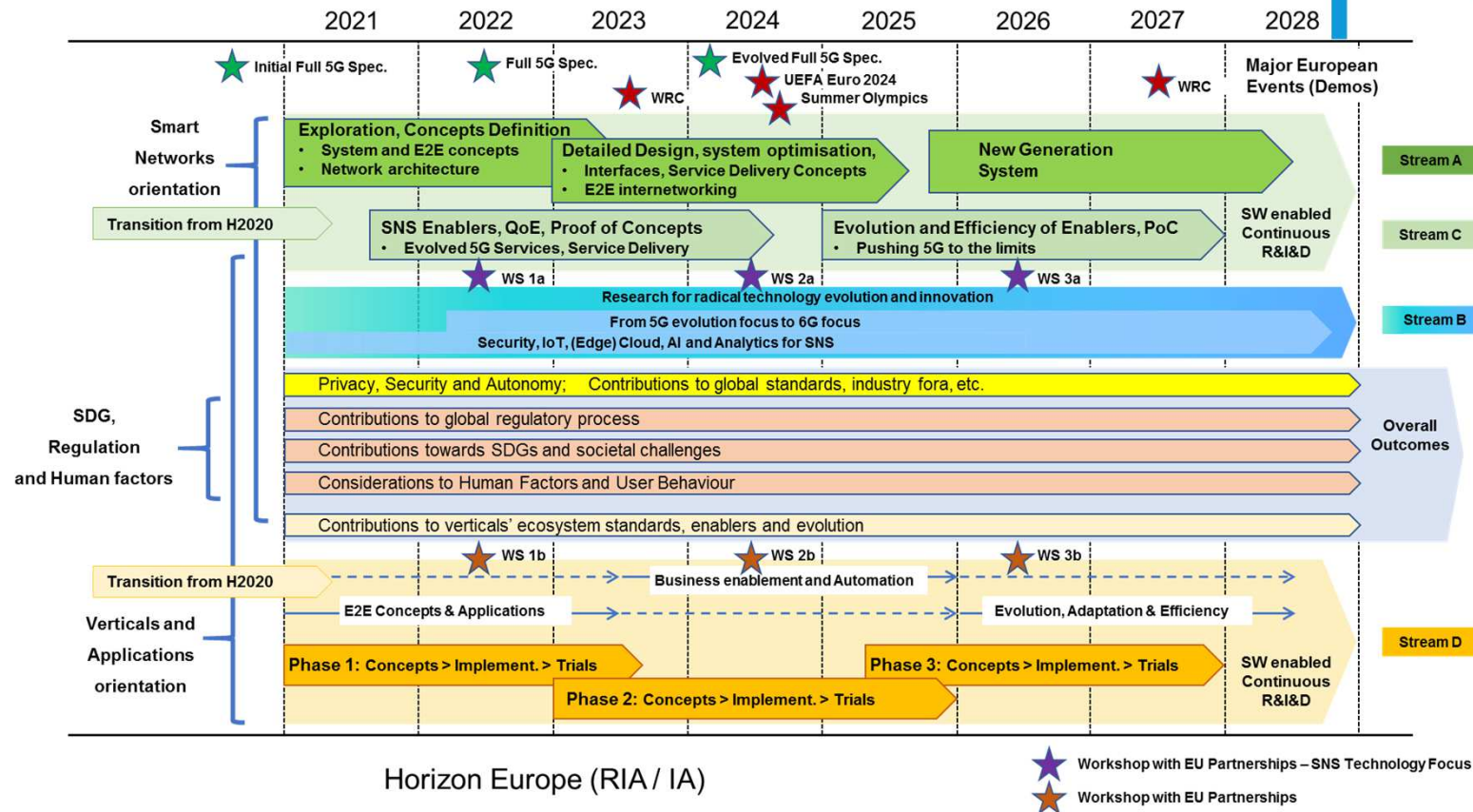
SNS PROGRAMME PROPOSAL: SYNERGIES



Impact Assessment and Facilitation Actions” (IAFA) that are research-based activities and that ensure relevance and impact. focus on interaction with adjacent Partnerships, initiatives and relevant Associations to ensure relevance and synergies in both directions

Source: SNS proposal. June 30, 2020, https://ec.europa.eu/info/sites/info/files/research_and_innovation/funding/documents/ec_rtd_he-partnership_smart-networks-services.pdf

SNS PROGRAMME MAIN ACTIVITY STREAMS AND PHASES



Impact Assessment and Facilitation Actions” (IAFA) that are research-based activities and that ensure relevance and impact. focus on interaction with adjacent Partnerships, initiatives and relevant Associations to ensure relevance and synergies in both directions

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STATUS OF SNS PARTNERSHIP AND TIMING



We are here

