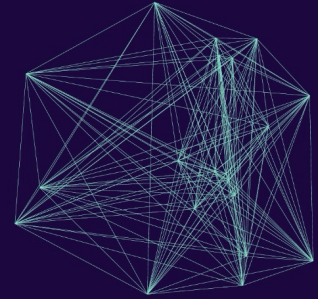




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Computing Continuum: The Next Frontier of the IoT, Edge and Web3

# Session 1: Climate and Resource Resilience

Moderator: Georgios Karagiannis (Huawei – AIOTI WG Standardisation and TF Digital for Climate chair)

Moderator	Photo	Bio
Georgios Karagiannis		<p>dr. ir. <b>Georgios Karagiannis</b> holds a Ph.D. degree and a M.Sc. degree in Electrical Engineering from the University of Twente, the Netherlands. From 1994 to 1998 he was working as a Researcher at the University of Twente. In 1998 he joined the Wireless Multimedia Research unit of Ericsson Eurolab Netherlands in Enschede, Netherlands, where he stayed until April 2003. From April 2003 to August 2014 he worked as Assistant Professor at the Design and Analysis of Communication Systems (DACs) group of the University of Twente. In September 2014 he joined <b>Huawei Technologies Düsseldorf GmbH as Principal Strategist in Standardization and Industry Development</b>. Currently he is participating in several SDOs and alliances, such as AIOTI, IETF, BBF, ETSI and OSGi Alliance. Within (1) the AIOTI he serves as the chair of the AIOTI WG standardisation &amp; TF Digital for Climate and served as the AIOTI Steering Board Chair in 2020, (2) the European Observatory StandICT.eu as chair of TWG IoT and Edge, (3) the OSGi Alliance he held a position as alternate member of the Board of Directors until November 2018, (4) the BBF, he held editing positions in the context of Cloud Central Office (CloudCO) and 5G Fixed Mobile Convergence (FMC) activities. Recently he represented AIOTI in the SNS JU Work Programme 2021-2022 taskforce, the TransContinuum Initiative and the DEI/MSP Work Group.</p>

Speaker	Photo	Bio
Dieter Wegener		<p>After graduation in Aeronautical and Aerospace Technology Dieter Wegener worked as scientist at DLR (German Aerospace Center). After four years as consultant for McKinsey he joined SIEMENS in 1996 as Head of Gasturbine Engineering at "Power Generation".</p> <p>During his career within SIEMENS he had different responsibilities: personal Assistant for an Executive Board Member, Chief Technology Officer (CTO) for Business Division "Industry Solutions" and VP &amp; Head of R&amp;D-Organization "Advanced Technologies &amp; Standards (ATS)" for Industry Sector.</p> <p>Since 2016 Dieter Wegener is VP &amp; Head of External Cooperation at SIEMENS Technology. (1) Chair of ZVEI Management Circle "Industrie 4.0" (since 2014) (2) Vice-President DKE (since 2015) (3) Chair of Advisory Board SCI4.0 (Co-Founder, since 2016) (4) Vice-Chair of DMEC (Co-Founder, since 2019) (5) Chair of DIN Presidential Committee FOCUS.ICT for "German ICT Standardization" (since 2019) (6) Vice-Chair of ZVEI Management Circle "Electrification &amp; Climate" (since 2021) (7) Member of "German Strategy Forum for Standardization at BMWK" (since 2023).</p>
Luis Neves		<p><b>Luis Neves</b> is CEO of the Global Enabling Sustainability Initiative (GeSI) since 2017.</p> <p>Prior to that, from 2008-2017, Luis held the position of GeSI Chairman.</p> <p>Under Luis' leadership, GeSI has become a globally recognized "thought industry leader" organisation in the field of ICT- sustainability with strong focus on the enabling role and positive contribution of digital technologies to climate protection.</p> <p>Before GeSI, Luis worked at Deutsche Telekom for over 15 years holding positions such as Head of Sustainable Development and Environment, VP of Corporate Responsibility and Chief Sustainability and Climate Protection Officer.</p> <p>Luis has also held positions and played relevant roles at European and international levels in organisations, such as the UN Global Compact Lead Group, Econsense the German Sustainability Association, World Resources Forum Association and UNFCCC Momentum for Change Initiative.</p> <p>Luis was born in Portugal and obtained a degree in History from the University of Lisbon.</p>
Gauthier de Villenfagne		<p>Gauthier de Villenfagne is <b>Country Manager for the Lenovo Infrastructure Solutions Group (ISG)</b> in Belgium and for Luxembourg for 2 years. He is responsible for the go to market and for the commercial execution of the worldwide and EMEA strategies to augment the market share of the Lenovo brand in Belgium &amp; Luxembourg and especially the ISG related solutions. Gauthier joined Lenovo 6 years ago as ISG channel leader for Belgium &amp; Luxembourg. Only a few months later, he was asked to lead the channel and SMB business for the PC products. Under his channel leadership Lenovo reached the number one position in market share in Belgium with the magic number of 100k PC units sold. Gauthier has been leading the Lenovo Channel for the Infrastructure and for the PC products during 4 years for Belgium and Luxembourg until he took his current position. Before joining Lenovo, Gauthier was <b>Country Director for Arrow ECS</b> (Enterprise Computing Solutions) in Belgium and Luxembourg, a worldwide distributor for IT products (hardware, software, &amp; components). Conducting double digit revenue and profit growth, he has been holding this position for 3 years.</p> <p>His country leadership at Arrow followed an <b>18 years long career at IBM Belgium</b> where his main positions were : Leader of the Belgian Banking and Insurance Client Unit (good for over 1/3rd of the IBM Belgium revenue), Benelux sales leader for the Server and Technology Channel and International Sales Executive for several big IBM clients.</p>
Ilias Iakovidis		<p>Ilias Iakovidis, PhD, Adviser, Green Digital Transformation at the European Commission, DG CONNECT.</p> <p>Ilias works on EU wide measures and initiatives to improve the sustainability of ICT, e.g., making datacentres climate neutral and digital devices circular. He is currently focused on maximising the benefits of green digital transformation for environment, society and economy. Ilias has initiated the European Green Digital Coalition that will develop science-based methods to estimate the net impact of digital solutions on environment, and, develop guidelines for green digital transformation in sectors such as energy, transport, construction, agriculture and others. He is also working on digitalisation for circular economy (e.g. digital product passport).</p> <p>Before 2017 Ilias was leading the eHealth and ICT for ageing units and contributed to the EU Agenda in eHealth field for over 20 years. Areas he pioneered include digitally supported Integrated Care; 'Virtual Physiological Human' (digital patient); Personal Health Systems and Electronic Health Records.</p>

# Scope of the session

- The **green and digital transition should generate new business** in particular in the area of using IoT and edge computing as enablers to reduce the energy and carbon footprint in vertical industries.
- AIOTI focused in the context of the [Digital for Climate Task Force](#), on **providing guidelines and a methodology to IoT and Edge Computing technologies and services to stakeholders** on making informed choices on (1) how to **assess the carbon footprint of solutions and services they use**, (2) include selection criteria that are needed to help stakeholders to **select the most suitable PCF methodology for each considered scenario**, industry sector, initiatives and standards, existing methodologies of measuring ICT carbon footprint and how they can be applied to IoT and Edge Computing, and (3) **measure how these methodologies support carbon footprint reduction of their use** and (4) **measure the avoided carbon emissions in industrial sectors when IoT and Edge computing are applied**,
- Key Theme:
- In this session we will show how IoT and Edge Computing business driven scenarios and use cases can support these objectives and challenges, in particular **how to deal with current energy crisis, CO2 reduction, support circular economy and digital product passport, impact on manufacturing and data spaces and measuring climate impact**

# Questions for discussion

- What is the most important measure to implement the ESPR (Ecodesign for Sustainable Products)?
- How big is the willingness of the industry to implement the DPP (Digital Product Passport) under the ESPR?
- How can we ensure that IoT enabled applications and services have positive impact on the environment?
- How to address sustainability in IoT domain and in general with ICT?
- What are the major areas where IoT can contribute to sustainability?
- What can leading IT companies do together to lower carbon emissions practically ?
- Are there specific solutions brought by IT companies that you have seen working with significant reduction of carbon emissions?



**Thank you for listening**

**Any questions?**

**You can email [sg@aioti.eu](mailto:sg@aioti.eu)**