

Event	Sustainability of Chips: Impact of Emerging Chip Technologies, Clean-Tech Applications and Policy-Enabled Innovation <i>Hosted by AT-C3 and FiCCC</i>
Place & Time	Where: Tampere Hall, Tampere, Finland. Side event to ISLC 2026, https://events.tuni.fi/islc2026/ When: 17 June 2026, 15:00–18:00 EEST
Format	Onsite only
Registration of interest	Registration of interest: Workshop – Fill out form
About the Workshop	Semiconductor photonics sits at the intersection of two urgent sustainability challenges: reducing the environmental footprint of advanced microelectronics and enabling the clean-tech applications that help monitor and protect our environment. This half-day workshop, co-organised by the Finnish and Austrian Chips Competence Centres as part of the EU Chips for Europe Initiative, brings these two dimensions together in a single focused event.
Scope and Structure	<p>Session 1 — Environmental Sustainability of Emerging Chip Technologies: Quantum, photonics, wide band gap materials, ... What will be the future environmental footprint of advanced semiconductor technologies, that are developed in the Chips JU Pilot Lines and other large-scale research projects right now? And what clean-tech opportunities do those technologies unlock? This session seeks to unpack the complexity of this highly relevant aspect – and to discuss, how Pilot Lines and Chips Competence Centres should position sustainability in their research agendas and services.</p> <p>Session 2 — Photonics for Environmental Monitoring: How do innovation and policies interact? Photonic sensing technologies hold exceptional promise for detecting pollutants — PFAS, microplastics, greenhouse gases, pharmaceuticals, and more — enabling continuous, on-site measurements that were previously impossible. This session presents cutting-edge photonics-based sensing solutions alongside the emerging EU regulatory framework, including the revised Industrial Emissions Directive, that is creating new market opportunities for these applications.</p> <p><i>Confirmed Speakers: Invisible Lights Lab, Silicon Austria Labs, Gasera, INCITE.</i></p>

	<p>Keynote — Oras Tynkkynen (Member of the Finnish Parliament): Policy-based pathways to sustainable innovation. This keynote provides insights into the endeavour of policy makers to transform industries and to create opportunities for sustainable innovation. Oras Tynkkynen has served in the Finnish Prime Minister's Office on climate policy, as a deputy Member of the European Parliament. He also was a Senior Advisor at the Finnish Innovation Fund Sitra and consults the private sector through his own firm Tyrsky. Oras brings both legislative experience and a practitioner's understanding on how policy can translate into real-world innovation.</p> <p>Panel Discussion — “Kortit pöytään!” (Cards on the table!) ... How do policies create a market for my Earth-solving solution?</p> <p>This is the core question of the sustainability transformation. Companies need to be economically successful. Policies must ensure that sustainable practices are profitable. But is this really working out? How can clean-tech innovators actively utilise environmental policies, like the new Sevilla Process, that defines which ‘best available technologies’ must be used in industries? Can we foster synergies between the EU Chips Act and the big transformative environmental EU policies? These questions will be discussed in the panel by innovators, policy makers, representatives from European agencies on transformative innovation and representatives from the Chips for Europe Initiative.</p>
<p>Who Should Attend?</p>	<p>This workshop is open to all ISLC 2026 participants and guests. It is especially relevant for:</p> <ul style="list-style-type: none"> • Researchers and engineers in semiconductor photonics and sensing • Clean-tech innovators and companies in photonics and adjacent fields • Representatives of EU Pilot Lines and Chips Competence Centres • Policy-makers and regulatory experts engaged with green innovation
<p>What You Will Gain</p>	<ul style="list-style-type: none"> • An understanding of the environmental footprint and handprint of advanced semiconductor technologies • An overview of the state of the art in photonic environmental sensing and its highest-impact application areas • Insight into the EU regulatory landscape creating near-term market opportunities for photonics-based clean tech • Connections across the researcher, industry, Pilot Line, and policy communities