

INSIDE
Industry Association



SC⁴EU
True Demand-Driven
Semiconductor Supply Chains
for Europe



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Semantic web

language that can be understood by humans and machines

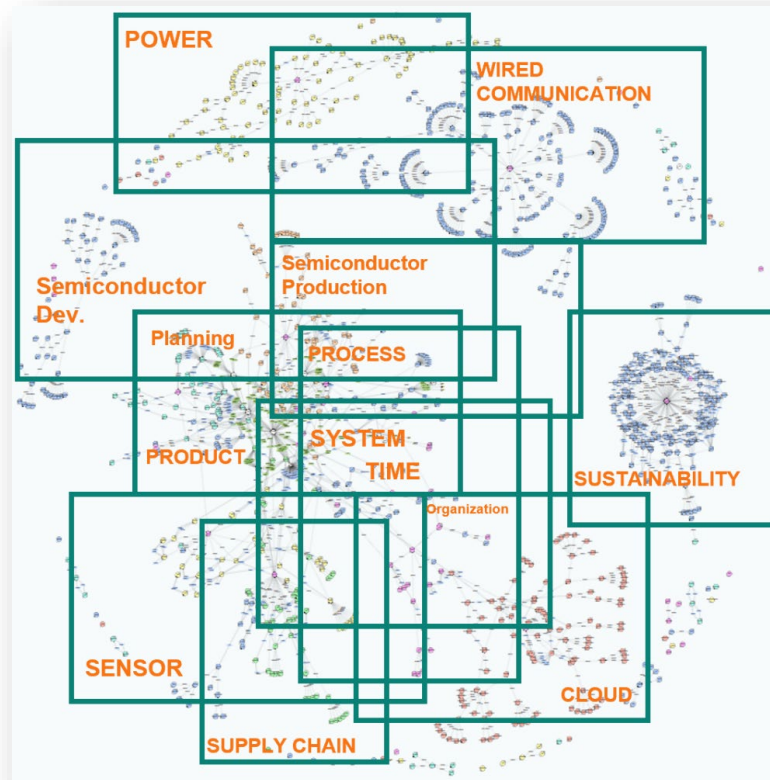


AI-based Forecast

Anonymity with MPC
(Multi Party
Computing)

Utilize Semantic Web
to handle complexity
and ensure interlinking
and understanding

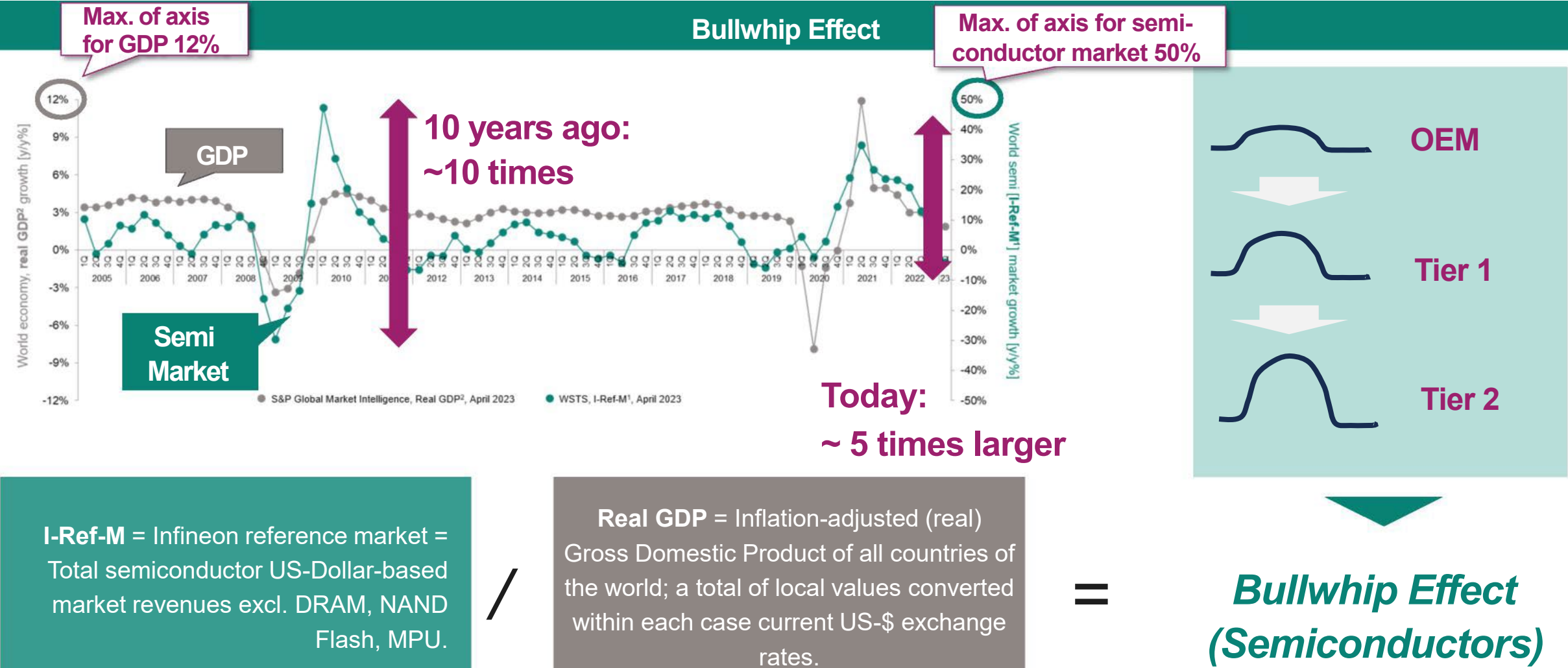
Acceptance of AI
results by humans



Semantic Web technologies are applied to enable digitalisation in the industry in particular for the domain of semiconductors and corresponding supply chains. Semantic Web is a lingua franca to handle **data, which varies in systems, structure, quality, and security.**



Bull whip effect in production



15 partners

ASML



INVOLATION
DRIVEN BY POSSIBILITIES



Une école de l'IMT



TACEO

flostock
stock & flow analyses

KU LEUVEN



**Our best
friend:
data**



**Collaboration of competitors
in a European spirit**

Productive 4.0



SC4EU Project Communication Activities

- Established bi-monthly newsletter
- Showcasing project progress and team achievements
- Reaching key stakeholders across Europe
- EFECS 2025 Conference in Malta
- Successfully presenting SC4EU's vision INSIDE
- General Assembly Meeting in Lissabon

Technical Focus Areas

- Secure data exchange platform development
- Ontology Curation Portal advancement
- True demand forecasting solutions



Written on 20 December 2024

SC4EU at EFECS 2024: Pioneering the Future of European Semiconductors

Gent, Belgium 5-6 December 2024

At EFECS 2024, the European Forum for Electronic Components and Systems, which took place in Ghent, Belgium,



Written on 11 July 2024

True Demand-Driven Semiconductor Supply Chains for Europe

Announcing the Kickoff of SC4EU Project: Revolutionizing Semiconductor Demand Forecasting

Athens, Greece 16 April 2024



Written on 13 January 2025

Effective Dissemination and International Communication: A Key to Project Success

13 January 2025

In large-scale projects like SC4EU, good communication channels and effective sharing of information are important for smooth operations and cohesion in achieving the project goals. This is rather important for large complex projects involving several work packages, cross-functional teams, and numerous

Newsletter



We are pleased to announce the official **Kickoff** of the SC4EU project, funded under the Horizon Europe-ETN-2022 call. The pioneering initiative aims to tackle the persistent challenges posed by the ongoing effect in semiconductor supply chains, a phenomenon that has resulted in detrimental consequences such as excessive inventory, decelerated revenue and significant challenges, particularly evident during crises such as the COVID-19 pandemic and previous financial downturns.

Our Project's Press Release

SC4EU is a collaborative innovation action aimed at strengthening European digital sovereignty by mitigation of the chip shortage through reduction of buildup effect in the semiconductor industry and supply chains containing semiconductors. This will be reached via a "true" demand signal gained from an anonymous MPC (Multi-Party Computation) survey on coarse granularity which will be broken down via AI methods to the granularities following the semantically well-based digital reference structure.

Innovation Strategy:

The SC4EU consortium's approach for improving supply demand forecast in the semiconductor industry and mitigating buildup effect is based on:

- anonymous data sharing with use of Multi-Party Computation
- semantic data processing to obtain high quality data of the granularity
- close cooperation of semiconductor companies and research institutes
- focus on human factors
- application of quantification and meta techniques for data sharing incentivization

Key objectives: The overall goal of the SC4EU project is to develop a solution for better demand forecasting in semiconductor supply chains. This objective will be achieved by establishing a true demand platform - a service available to companies involved in semiconductor supply chains.

NEWSLETTER



GENERAL ASSEMBLY MEETING IN ATHENS

We are pleased to share highlights from our first General Assembly Meeting held in Athens, where project partners gathered to discuss the significant milestones achieved and outline the exciting steps ahead. The meeting served as a pivotal moment for reflection, collaboration, and planning. Over the course of the discussions, the partners reviewed the work completed so far and assessed its impact on the broader goals of the project. Key achievements, challenges, and breakthrough developments were presented, showcasing the collective effort and expertise driving the project forward.

BLOGS/ARTICLES

We're excited to present a new series of articles that dive deep into the heart of SC4EU project, featuring insights from our research partners who are at the forefront of innovation. Each article highlights a specific aspect of the project, from the unique roles played by our partners to the advanced technologies and methodologies they are employing.

Stay tuned for a deeper understanding of the cutting-edge technologies and innovations shaping our path forward.

Read more on our website <https://sc4eu.eu>



THANK YOU!

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