

Fraunhofer IIS Tecnologías y su Modelo de Trabajo con Empresas



MARTINA SPENGLER

Desarrollo de Negocios Internacionales

Fraunhofer Instituto de Circuitos Integrados IIS

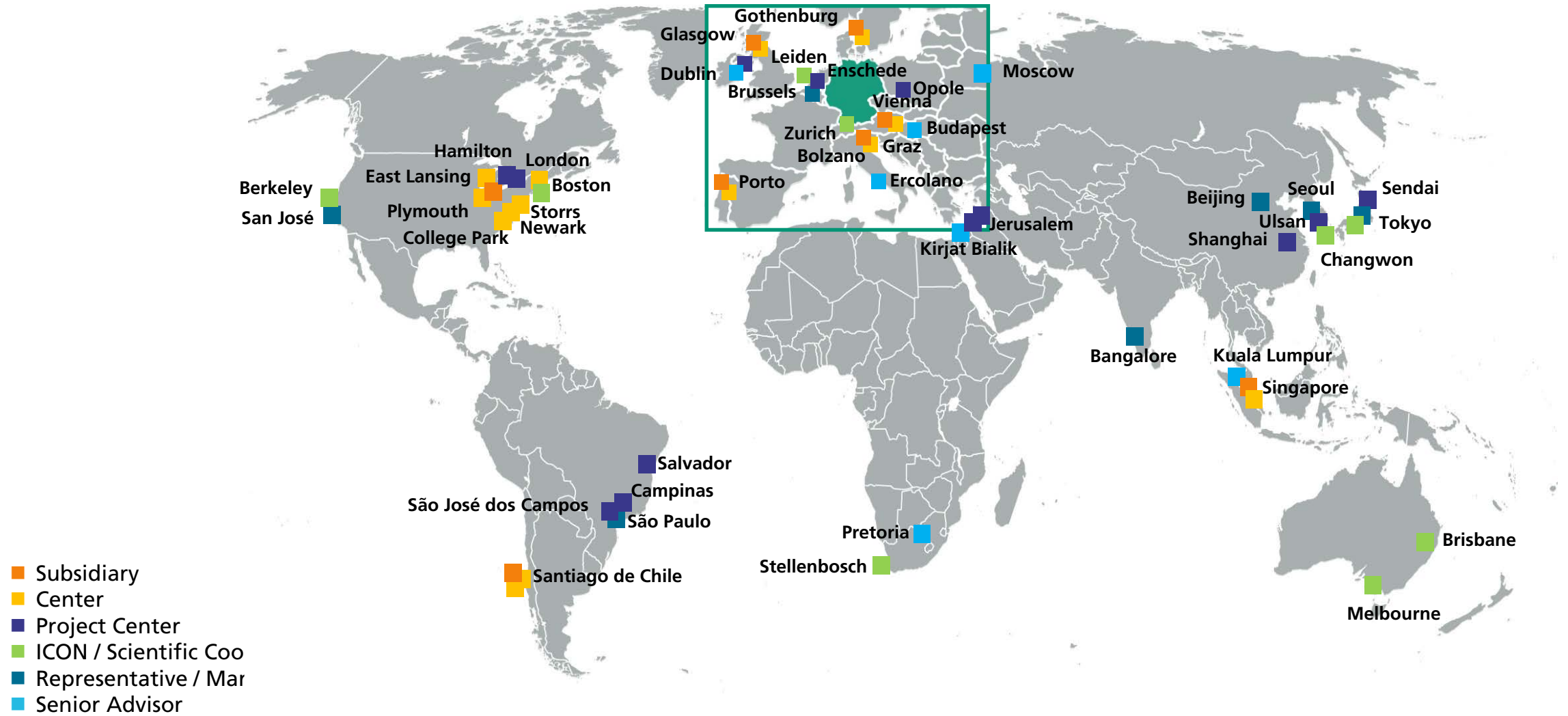
The Fraunhofer-Gesellschaft – Europe's Largest Organization for Applied Research



Headquarters in Munich

- Founded in 1949 in Munich
- 72 institutes and research units in Germany
- More than 26,600 employees
- Annual budget is about € 2.6 billion, partially public founded
- Representative offices, research units, and subsidiaries worldwide

Fraunhofer Worldwide



Fraunhofer Institute for Integrated Circuits IIS

At a Glance

- Founded in 1985
- Staff: ca. 1050 employees
- Budget: 165 MM Euro in 2018
- Revenue sources:
 - 52 % income from industry
 - 20 % income from public sector
 - 26 % public basic funding
- Inventions: 115 disclosures in 2018
- Locations:
 - Erlangen, Nuremberg, Fürth, Dresden,
 - Ilmenau, Würzburg, Bamberg, Coburg,
 - Passau, Deggendorf, Waischenfeld

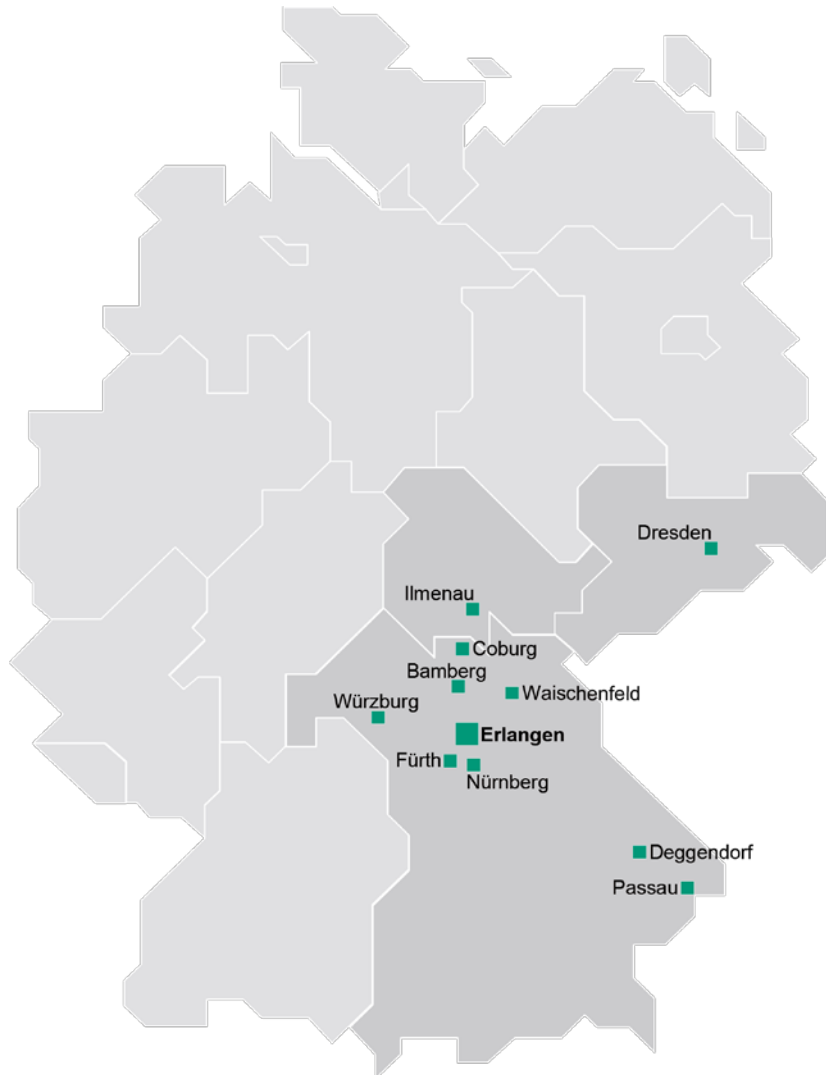


Fraunhofer Institute for Integrated Circuits IIS

Vision – Mission

- The Fraunhofer Institute for Integrated Circuits IIS is one of the world's leading application-oriented research institutions for **microelectronic and IT system solutions and services**.
- Fraunhofer IIS conducts top-level research on an international level for the immediate benefit of industry and the greater good of society. The innovative and practical technology solutions Fraunhofer IIS develops for our clients help to increase their **competitiveness in the region**.
- A wide range of technologies, methods and processes are employed to generate innovative solutions, ranging from **components to complete systems**, which keep our clients in industry competitive and successful.

Fraunhofer IIS Locations



Erlangen: Headquarters and METEAN (university hospital)

Fürth: Development Center X-ray Technology EZRT Division

Nürnberg: Positioning and Networks Division, Center for Applied Research on Supply Chain Services SCS, JOSEPHS® – The Open Innovation Lab

Dresden: Engineering of Adaptive Systems EAS Division

Ilmenau: Wireless Distribution Systems Department

Würzburg: Magnetic Resonance and X-ray Imaging Department

Bamberg: Research Group Business Models Bamberg

Deggendorf: Fraunhofer Application Center for CT in Metrology

Coburg: Applied Research Center for Wireless Sensor Technology

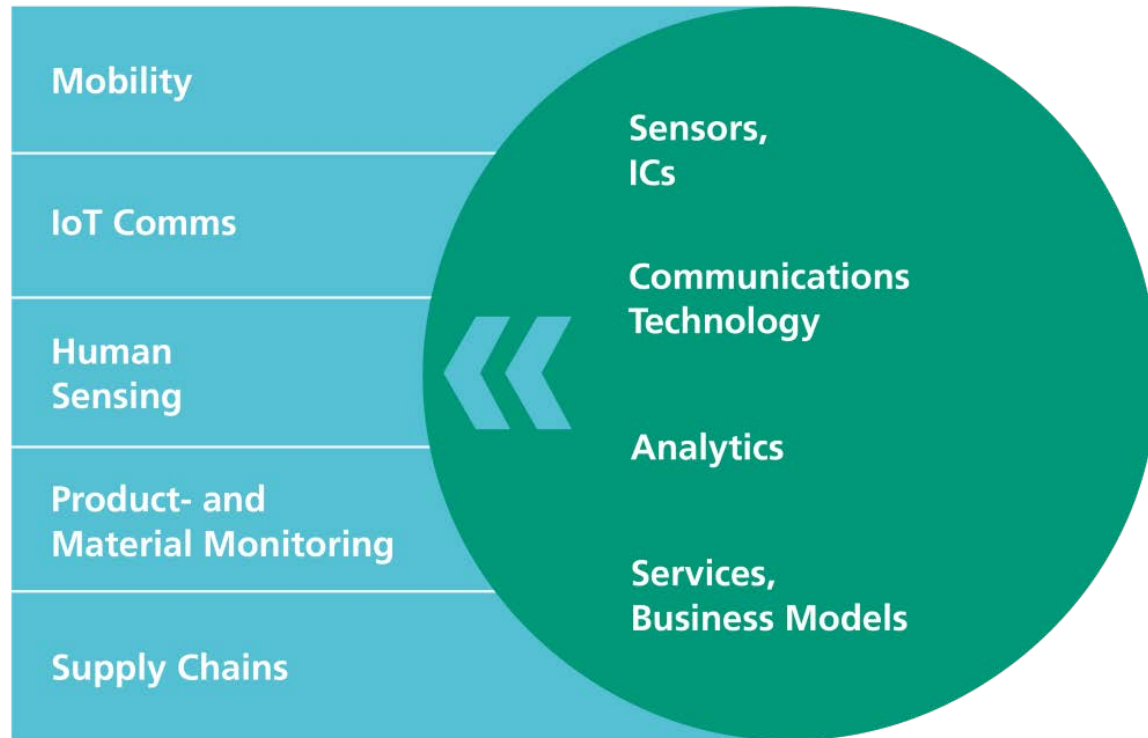
Passau: Research Group Knowledge-Based Image Processing

Waischenfeld: Research Campus

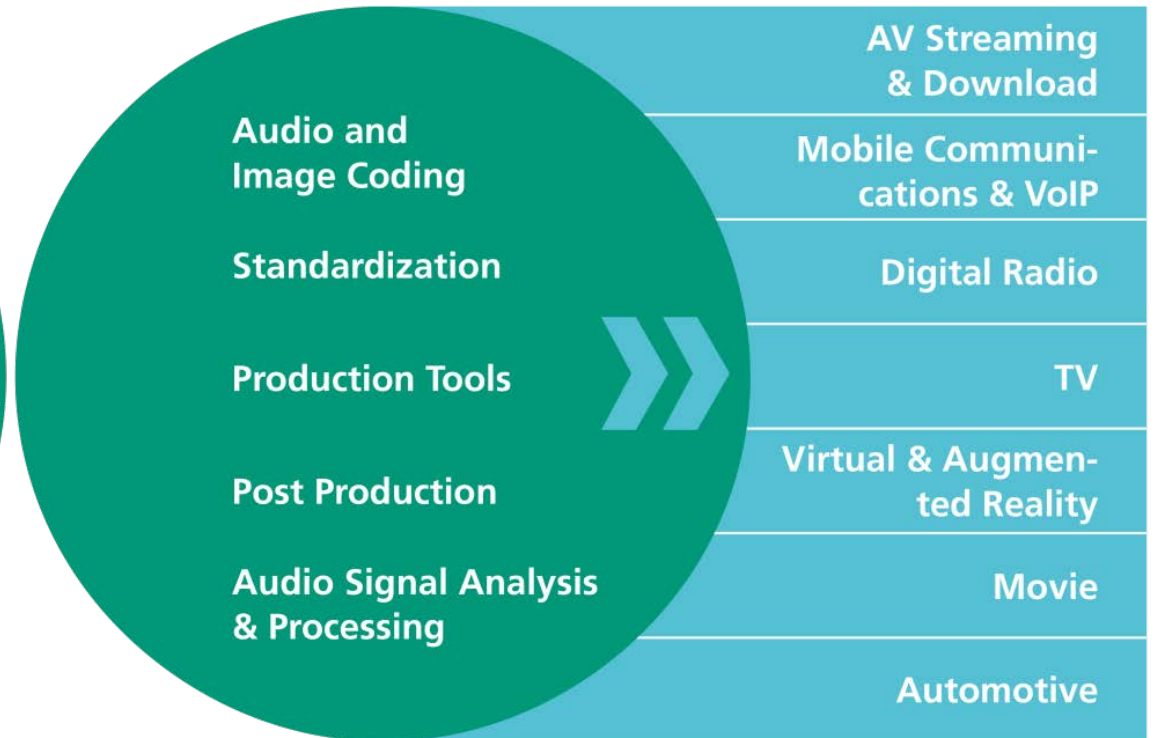
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Core Topics

Cognitive Sensors Technology



Audio and Media Technology



Audio and Media Technologies

A Global Success: Basic Technologies from Erlangen

World leadership: Developers of mp3, AAC, EVS, MPEG-H as well as digital radio systems and film production technologies

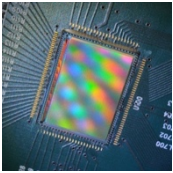
Largest team of developers: Vanguard expertise in the areas audio and media technologies for communications, consumer electronics, media services and media production

More than 10 billion licensed devices: All devices from entertainment and communications electronics, Internet browsers, music on the Internet, etc.



Cognitive Sensor Technologies

Areas of Expertise



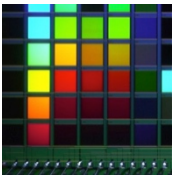
Sensors and ICs

Sensor systems for magnetic field, imaging, X-ray, position;
IC design and methods, circuit IPs



Communication Technology

Wireless communication, 5G, MIOTY, high-speed-wireline



Analytics

Intelligent data evaluation (e. g. image analysis) using artificial intelligence (AI) and machine learning (ML) methods for description, prediction, prescription



Services and Business Models

Service design and -engineering (JOSEPHS®), digital transformation

Fraunhofer Research and Business Models

Contract Research

- Applied research and development for industry
- On specific requests of our customers, exclusive

Joint Research

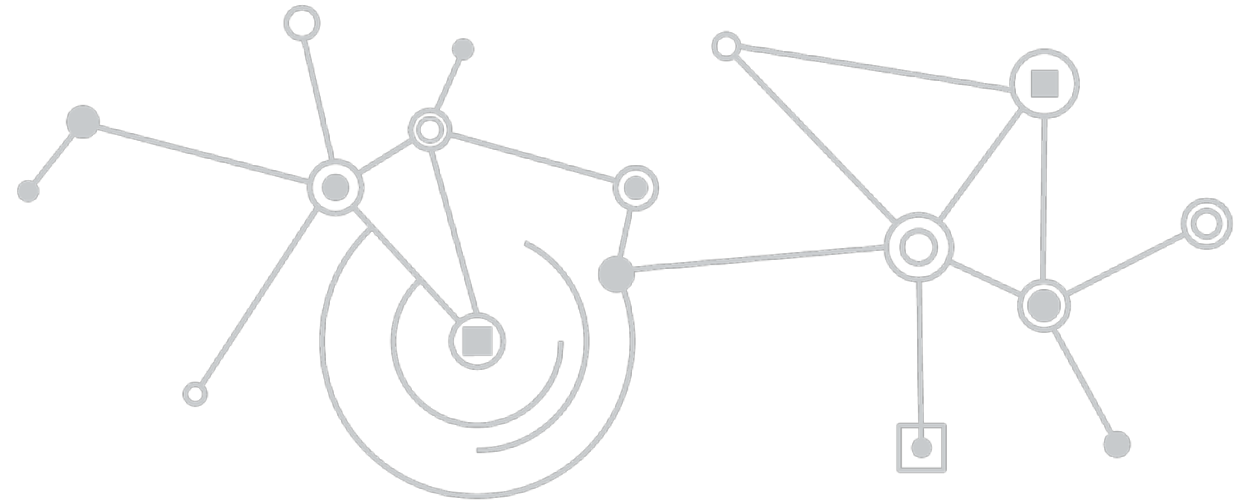
- Forefront and applied research (demonstrators)
- Funded by European Union and national funding bodies

Fraunhofer Forefront Research

- Setting new standards, technologies (prototypes)

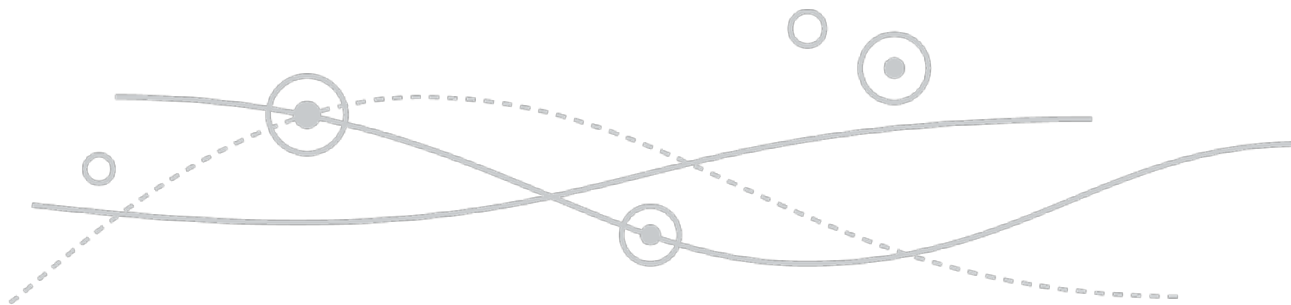
Patent / Technology / Product Licensing

- Worldwide, preferably non-exclusive



Fraunhofer IIS Technologies for Chile

The Focus of Today



IoT Communications and Industry 4.0

Technical solutions, basic technologies and applications - for digital transformation and added value

- Ultra-low power electronics, sensor technology, embedded systems, efficient network technologies, server-/cloud integration, data analytics
- Development of smart products, services and business models



The New Communication Standard for Massive IoT



Ultra Low Latency Communication for Critical IoT



Contact Information



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