

Fraunhofer Institute for Integrated Circuits IIS



Founded in 1985, approx. 900 employees, budget of around €150 m
Locations in **Erlangen**, Nürnberg, Fürth, Dresden, Ilmenau, Würzburg, Bamberg,
Deggendorf, Coburg, and Waischenfeld

Organizational structure of Fraunhofer IIS

Institute management and divisions

Management of the institute Prof. Dr. Albert Heuberger (executive) Dr. Bernhard Grill		Deputy Director Prof. Dr. Randolph Hanke Dr. Peter Dittrich	Staff Groups Janina Heppner	IT-Services Florian Freund	Senior Director Administration, Legal Affairs, Finance and Human Resources Dr. Peter Dittrich	
Audio and Media Technologies Dr. Bernhard Grill ER	Development Center X-ray Technology EZRT Prof. Dr. Randolph Hanke FÜ	Smart Sensing and Electronics Josef Sauerer ER	Communication Systems Michael Schlicht ER	Positioning and Networks Dr. Günter Rohmer N	Fraunhofer Center for Applied Research on Supply Chain Services SCS Prof. Dr. Alexander Pflaum N	Engineering of Adaptive Systems EAS Dr. Peter Schneider DD
Audio Johannes Hilpert	Application-specific Methods and Systems Dr. Norman Uhlmann	Electronic Imaging Stephan Gick	Broadband and Broadcast Bernhard Niemann	Communication Networks Jürgen Hupp	Data Spaces and IoT Solutions Dr. Roland Fischer (temp.)	Design Methodology Roland Jancke
Audio for Embedded Systems Marc Gayer	Contactless Test and Measuring Systems Dr. Peter Schmitt	Image Processing and Medical Engineering Dr. Christian Münzenmayer	Radio Communication Systems Dr. Gerd Kilian	Power Efficient Systems Dr. Wolfgang Felber	Analytics Prof. Dr. Alexander Martin	Efficient Electronics Andreas Brüning
Audio for Communications Manfred Lutzky	Production Monitoring Dr. Steven Oeckl	Integrated Circuits and Systems Dr. Norbert Weber	RF and SatCom Systems Rainer Wansch	Locating and Communication Systems Thomas von der Grün	Innovation and Transformation Dr. Frank Danzinger	Distributed Data Processing & Control Dr. Niraimathi Appavu
AudioLabs-IIS Dr. Frederik Nagel	Magnetic Resonance and X-ray Imaging Dr. Karl-Heinz Hiller WÜ	Integrated Sensor Systems Harald Neubauer	Wireless Distribution Systems Prof. Dr. Giovanni Del Galdo IL	Networked Systems and Applications Karlheinz Ronge		
Business Harald Popp						
Moving Picture Technologies Dr. Siegfried Föbel						
Multimedia Applications Dr. Nikolaus Färber						
Patents and Licensing Stefan Geyersberger						
Semantic Audio Processing Oliver Hellmuth						

Fraunhofer Institute for Integrated Circuits IIS

Management of the institute



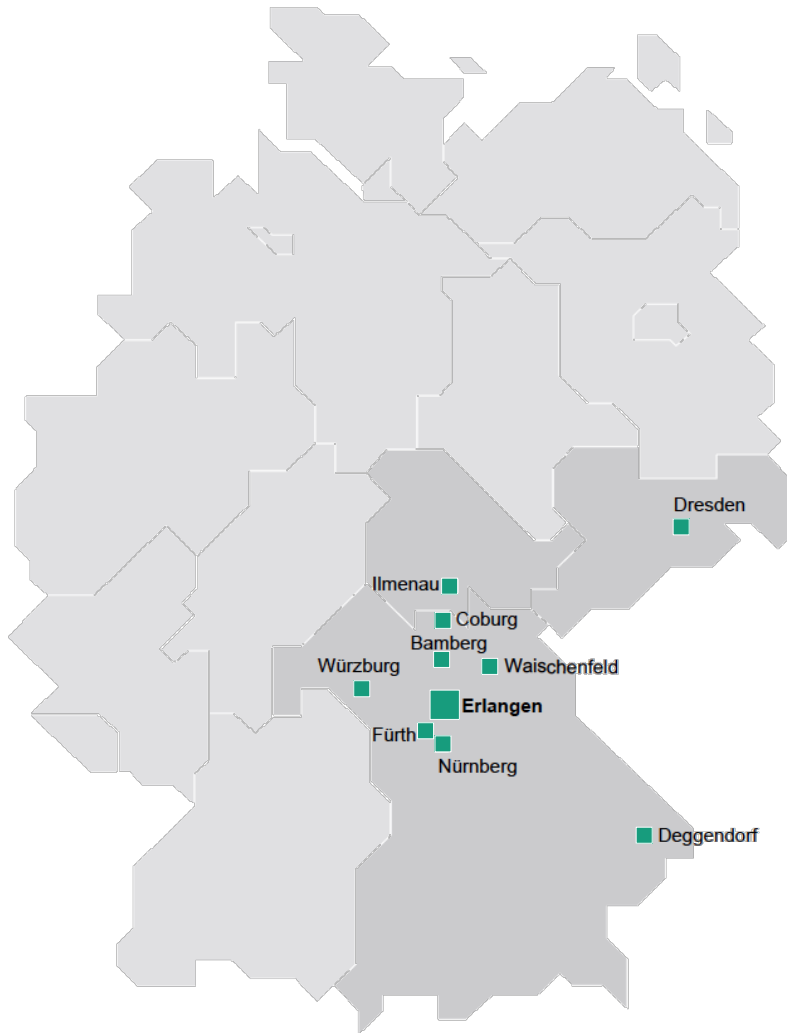
Prof. Dr. Albert Heuberger

Executive director
(right)

Dr. Bernhard Grill

Director
(left)

Fraunhofer IIS Locations



Erlangen: **Headquarters** and METEAN (university hospital)

Fürth: Development Center X-ray Technology EZRT Division

Nürnberg: Positioning and Networks Division, Fraunhofer Center for Applied Research on Supply Chain Services SCS, and 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

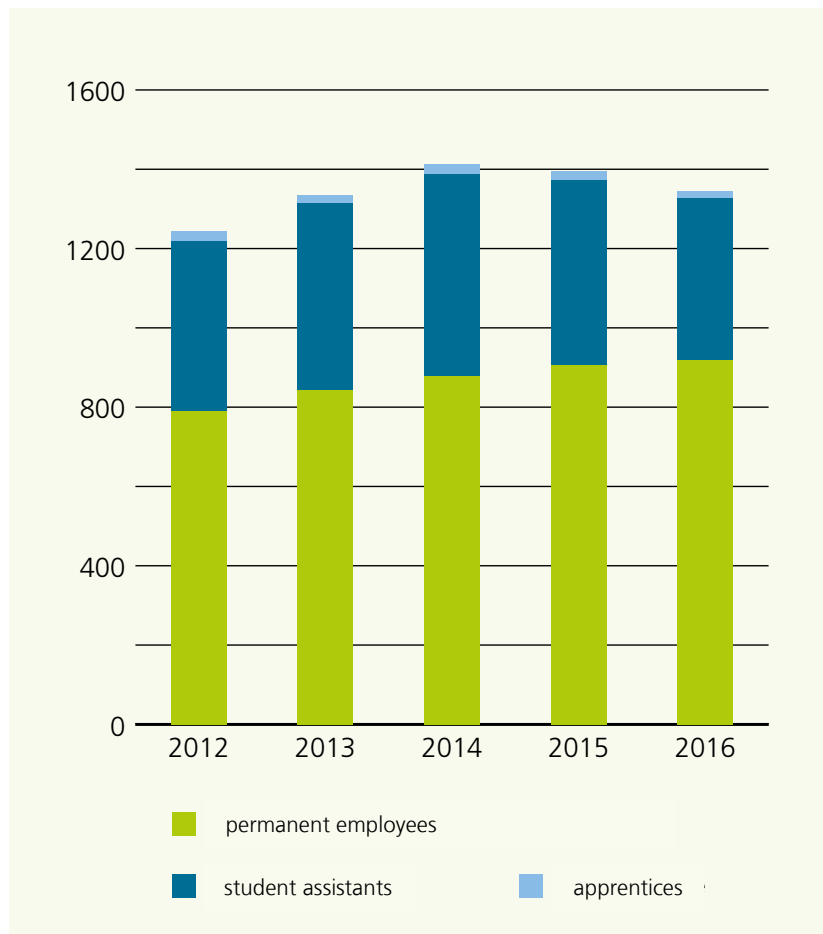
Deggendorf: Fraunhofer Application Center for CT in Metrology

Coburg: Applied Research Center for Wireless Sensor Technology

Waischenfeld: Research Campus

Fraunhofer IIS in Numbers

919 employees



- As in previous years, we enjoyed moderate growth in the 2016 business year
- The number of employees rose from 907 last year to 919. This figure refers to employees listed in the staffing plan
- Those in marginal employment arrangements are not included in the chart. We employ 410 student assistants and 16 apprentices

Fraunhofer Institute for Integrated Circuits IIS

Our guiding topics

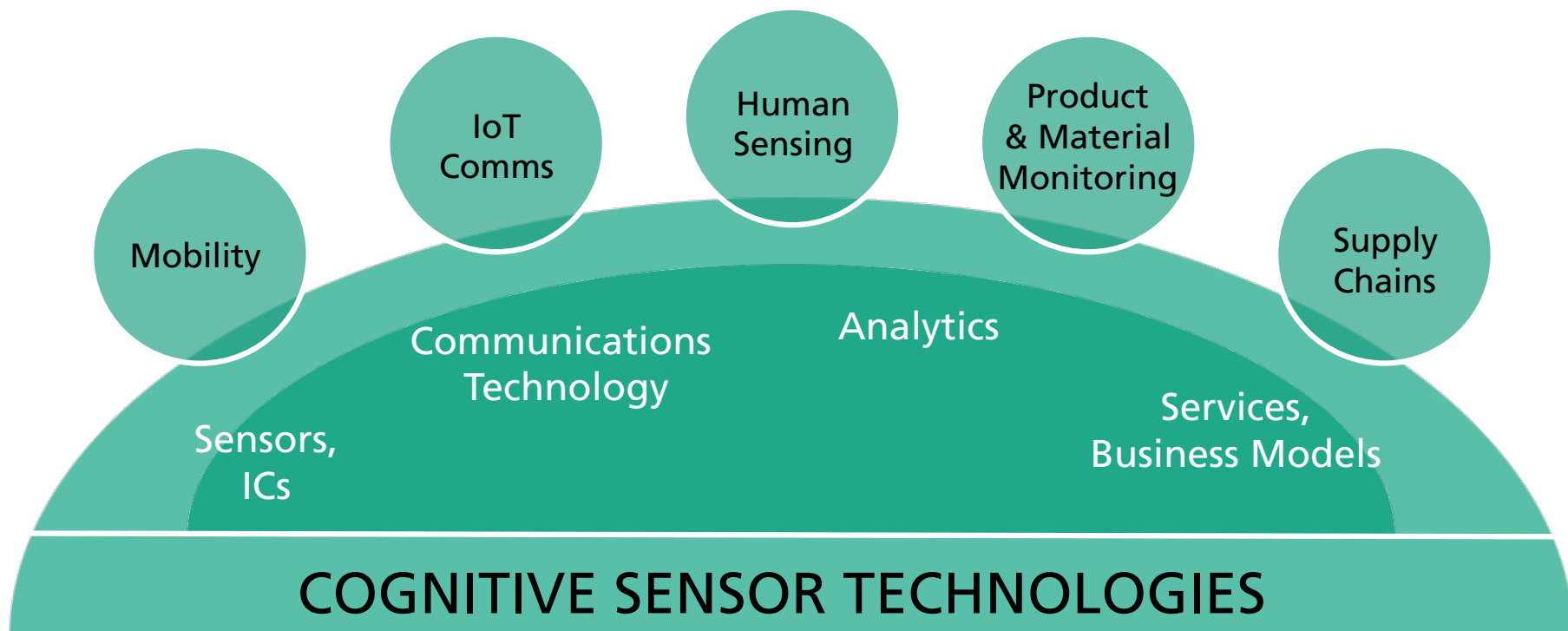
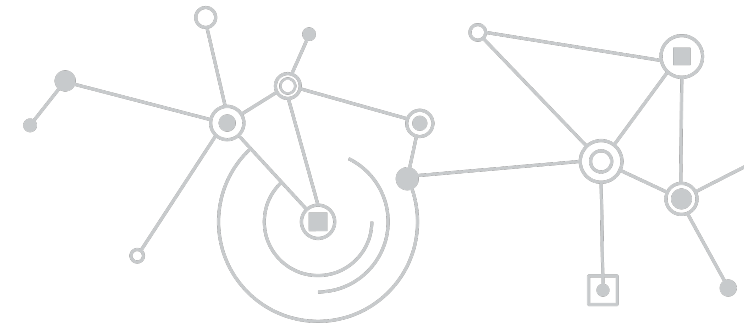


**COGNITIVE SENSOR
TECHNOLOGIES**

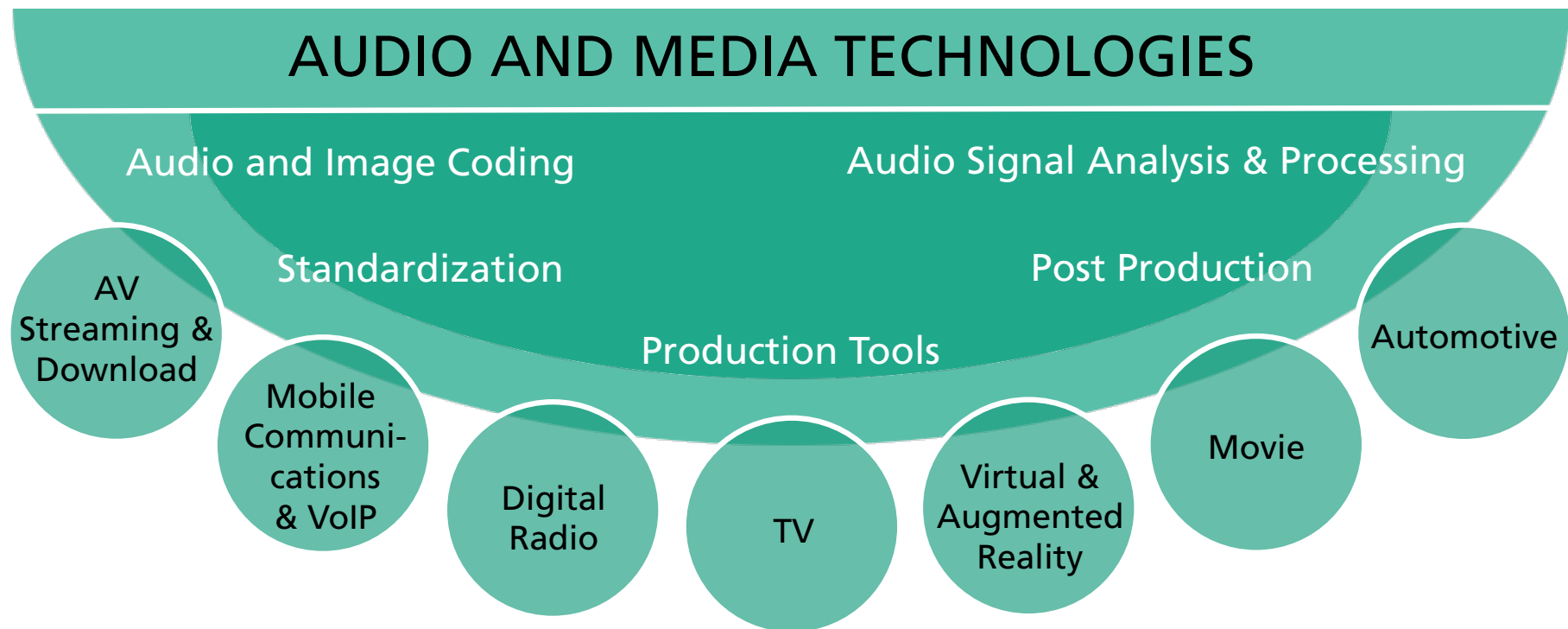
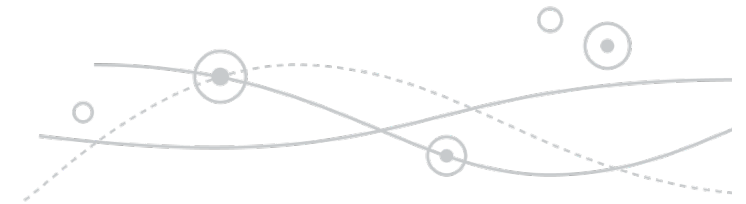
**AUDIO AND
MEDIA TECHNOLOGIES**



Cognitive Sensor Technologies

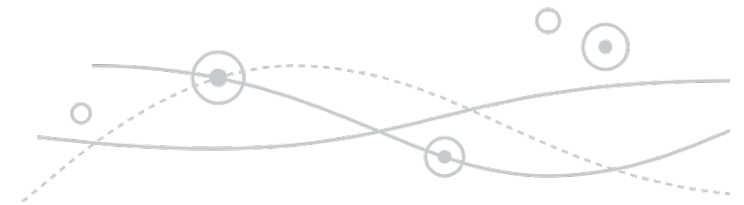


Audio and Media Technologies



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

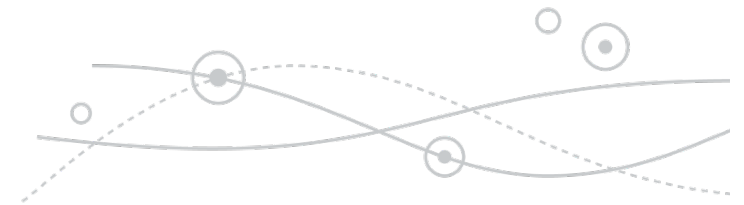
Largest team of developers: Vanguard expertise in the areas audio and media technologies for communications, consumer electronics, media services and media production

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



Audio and Media Technologies

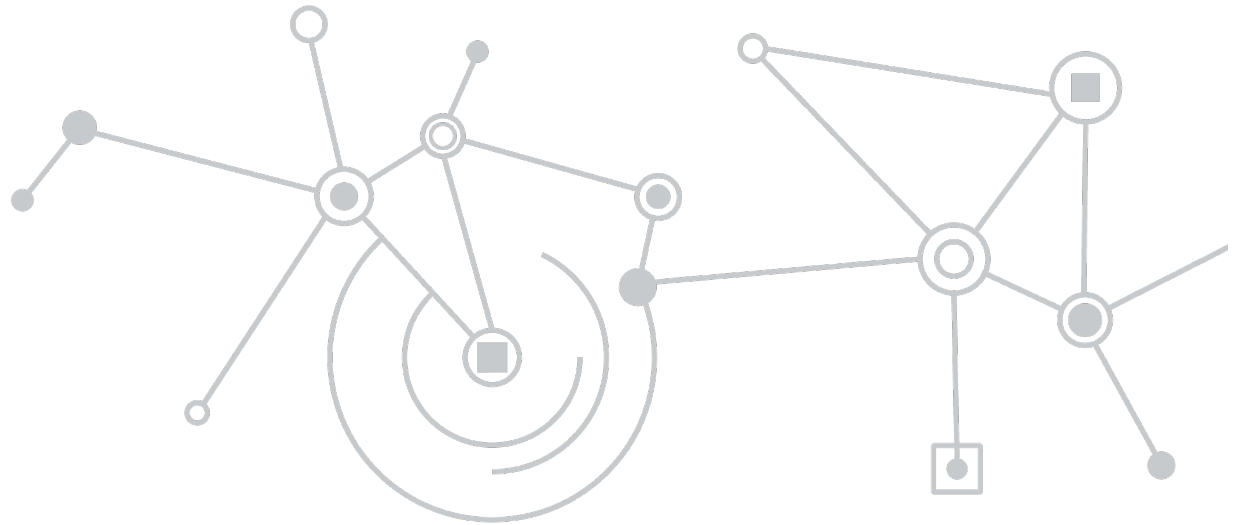
Digital radio



One-stop shop for digital radio broadcasting

- **Basic technologies:** Audio codec HE-AAC (DAB+) and xHE-AAC (DRM), Journaline, Emergency Warning Functionality
- **Broadcasters:** ContentServer Technology to get digital radio programs with their complete functional range on air – quick and easy
- **Receiving end:** Software solutions for fast and cost effective receiver development (Software Defined Radio)
- Digital radio technologies by Fraunhofer IIS are used worldwide in radio systems and in professional broadcasting equipment





Inventions that change the world
are rarely the result of ivory-tower research.

Guglielmo Marconi

