

FRAUNHOFER IKTS IN FIGURES

FRAUNHOFER IKTS IN PROFILE

Budget and revenues

With 55.5 million euros, the total budget 2017 exceeds the previous year's level by 2.1 million euros. Of that budget, 3.1 million euros were invested in reinforcing our equipment. Material expenditure increased by 1 million euros to 19.3 million euros in total. All in all, 42.3 million euros of external income was obtained, of which 19.6 million came directly from the industry. Projects to the value of 5.2 million euros were commissioned from abroad – mostly from India, China, Japan and the US, which together make up approximately half of the industry income from outside Germany. A positive development is that the funding of projects by federal states has increased in Thuringia (0.64 million euros) as well as in Saxony (3.3 million euros), translating into an increase of 28 % in total. The takeover of the buildings at Maria-Reiche-Strasse, Dresden by the Fraunhofer-Gesellschaft in 2017 was the basis for comprehensive extension works. The focus of the investment in buildings in 2018 will be on the renovation of fire protection infrastructure at that site. Various smaller construction projects at Winterbergstrasse, Dresden focused on extending lab areas for structural ceramics and functional ceramics research. In total, 2017 saw construction measures carried out at the three locations for 597,000 euros, in addition to the budget mentioned above. The share of EU project volumes increased by 350,000 euros. The successful efforts to extend the network of IKTS continue. Required administrative restructuring increases the pertaining organizational effort. The disparate costing approaches of the various funding bodies remains a challenge. The disparities lead to insecurity when it comes to determining billable costs and financial planning.

Personnel development

All in all, IKTS employs 680 staff members at three locations. The option of part-time work is particularly popular with our many young mothers and fathers. For increased comparability, the different groups are represented as full-time equivalents. 21 PhD

students work on their specific research topics, side by side with the 220 scientist positions – six more than in the previous year. The number of apprentices has also increased by three positions and is now at 14. The support program for Syrian refugees has been in use since 2017. It represents our contribution to integrating refugees. We expect more promising applications from this group in the future. The lookout for 2018 is very good overall. Human resources development planning comes to the fore not just for our PhD students. Other areas will also offer the prospect of a specialist career with us. The aim is to support personal career goals while at the same time conducting an open and transparent HR strategy.

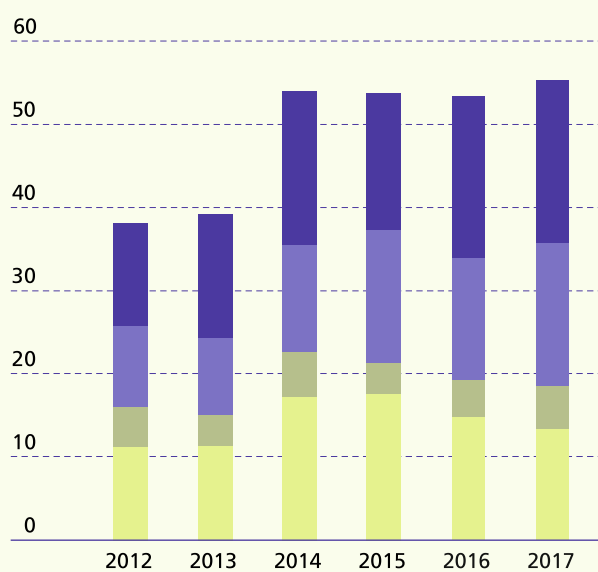
Expansion of the research basis

Within the classic field of activity of IKTS, the area of raw materials preparation was expanded as part of our strategy. With a particular view on cooperating with medium-sized companies, we have extended the capacity and technological basis for spray drying in order to be better able to process the various material groups. This will enable us to take on more projects in the field of oxide and non-oxide materials, and raw materials for cemented carbide. Supported by the federal state of Thuringia, the Hermsdorf site will be equipped with a synthesis plant, which will open up new possibilities of materials development – from structural ceramics to battery development. The sintering technology capacities in Dresden will also be expanded. In particular, the area of non-oxidic materials will boast new furnace systems from 2018, strengthening the technology chain from raw material to prototype. A TÜV-approved mobile test bench is available for exposition and electrochemical in-situ testing in deep geothermics. It also enables evaluating new materials for the oil and gas industries and use in deep-sea applications. At the Maria-Reiche-Strasse site in Dresden, investments were made in new camera systems for non-destructive materials testing. The area of battery and energy research will be extended as planned in 2018. The required evaluation of new buildings in the Braunschweig region was completed in 2017.



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Revenue (in million euros) of Fraunhofer IKTS for the budget years 2012–2017

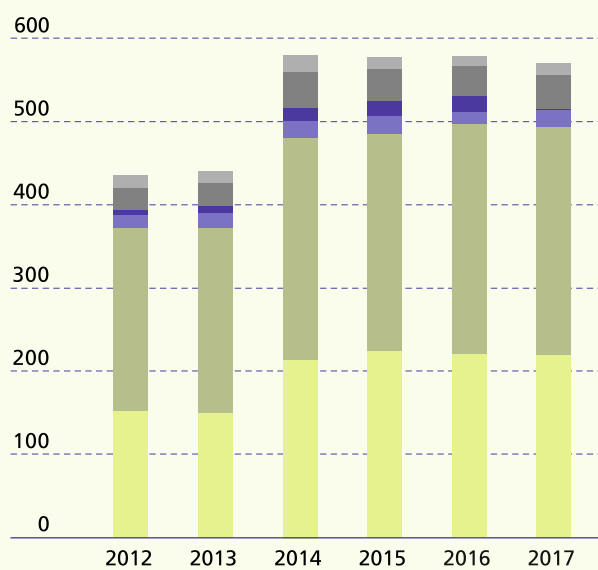


	2012	2013	2014	2015	2016	2017
Industrial revenue	12.6	14.4	18.6	16.3	19.6	19.6
Public-sector revenue	9.8	9.4	12.9	16.4	14.8	17.3
EU and other revenue	5.0	4.2	5.5	3.6	4.4	5.1
Institutional support	11.5	11.6	17.2	17.8	14.8	13.5
=	38.9	39.6	54.2	54.1	53.6	55.5

- Industrial revenue
- Public-sector revenue
- EU and other revenue
- Institutional support

Personnel developments at Fraunhofer IKTS

Number of employees 2012–2017, full-time equivalents, personnel structure on December 31 of each year



	2012	2013	2014	2015	2016	2017
Apprentices	16	14	19	15	11	14
Student workers, trainees, undergraduate students	27	28	44	38	36	40
Part-time and contract workers	5	8	16	18	19	1
PhD candidates	15	19	20	21	15	21
Employees with university degrees and technicians	221	223	267	260	276	273
Scientists	154	150	214	223	220	220
=	438	442	580	575	577	569

- Apprentices
- Student workers, trainees, undergraduate students
- Part-time and contract workers
- PhD candidates
- Employees with university degrees and technicians
- Scientists

1 Management of IKTS, f.l.t.r.: Prof. Alexander Michaelis, Prof. Michael Stelter, Dr. Ingolf Voigt, Dr. Christian Wunderlich, Dr. Michael Zins.