## **Industry & Science** in Styria

With an R&D intensity of 4.7%, Styria is the most innovative Bundesland (federal state) of Austria and is one of the leading regions of Europe. A further outstanding characteristic of Styria is the level of synergistic cooperation between industry and non-commercial research.

1,215,246 population (on 31.12.2013)
16,401 km² land area
42.7 average age of the population in years
84.0/78.9 average life expectancy f/m
39.065 regional GDP 2013 in billion euros
599,000 people in work 2013 (including self-employed)
66,626 active enterprises
179 large enterprises 2013 (> 250 employees)
31 impulse centers
4.7 (%) R&D intensity 2013
1.75 (bn) research spending 2013
49.0 exports as % of total revenues 2013
9 third-level educational institutions
13 non-university research centers Ca
23 competence centers and projects
~55,000 students 2012/2013
2,682 graduates in engineering subjects 2012
9.9 % of third-level graduates in population

Medical University of Graz (Med Uni Graz) Medizinische Universität Graz www.medunigraz.at University of Graz Karl-Franzens-Universität Graz www Graz University of Technology (TU Graz) Technische Universität Graz www.tugraz.at University of Music and Performing Arts Graz Kunstuniversität Graz www.kug.ac.at Montanuniversität Leoben www.unileoben.ac.at

Universities of Applied Sciences (Fachhochschule, FH): FH JOANNEUM www.fh-joanneum.at FH Campus 02 www.campus02.at

Styrian College of Education www.phst.at Catholic University College for Education Graz http://kphgraz.at

urces: www.wibis-steiermark.at, Statisti Report of Styria. Die steirische Wirtschaft in



## **Bundling Positive** Energies

as head of an international concern.

your own background is in university- big issues. based science. Back in 2004, when the Human Technology Cluster was founded, b: When you think back ten years - can take a lot of the credit because he did you were vice-rector for research ma- what did you personally expect from the an outstanding job for the first ten years. nagement and international partnerships cluster when it was founded? at the Med Uni Graz. Where do you see Herlitschka: Clusters are a huge thing having the right personalities in the right the biggest differences in the day-to-day here in Styria: just think of the automomanagement of a university and a com- tive cluster AC Styria. After the collapse mercial company?

aren't as big any more as you would have turning Styria into one of Europe's most imagined in earlier times. The universities competitive regions. And when we had think more like businesses than they used this one strong leg to stand on, it was ab- king in a number of life science fields to. I worked at the university in the pha-solutely the right thing to branch out and se when the Austrian universities were use the cluster strategy in other sectors, the pipeline, for example in lifestyle apps being made legally autonomous. At the including life sciences. Ten years later, based on smartphones. Sensor technolosame time, we took the medical faculty the cluster's success shows that we were gy is going to be a big area, for example of the University of Graz and transformed right to take the chance when we did. it into a separate medical university, the It was a smart decision, because indivi- or using electronic microfluidics-based Med Uni Graz. In that phase, it was very dual organizations - whether they are sensors. ted it as a joint initiative.

In this interview with Franz Zuckriegl, On the other hand, as an organization, b: If you think about the whole period Dr. Sabine Herlitschka, CEO of Infineon Infineon is about twice the size of the from then until now - what things suc-Technologies Austria AG, reminisces Med Uni Graz and then it is also part ceeded and what still needs to be improabout the how the Human Technology of a big international group. We are re-Cluster began ten years ago in Graz and sponsible for over 3,000 people in Ausreflects on the challenges she now faces tria and we have to succeed by selling physical products in specific markets. With our focus areas of energy efficienbotenstoff: Dr. Herlitschka, Infineon cy, mobility and security we also want has an R&D intensity of around 23% and to help find answers to some of society's and with a real will to achieve something

confidence a big boost.

of the nationalized industry in the 1980s,

ved, or strengthened? Herlitschka: Well, we have certainly

succeeded in bringing together the positive forces, both the universities and the companies. All the organizations involved came together with the best of intentions for the region. That was successful. The first head of the cluster, Robert Gfrerer, The success of a cluster depends a lot on positions

b: And turning to the present: Which Sabine Herlitschka: The differences the cluster strategy was a major factor in fields in the Life Sciences are especially attractive for a company like Infineon?

> Herlitschka: Infineon is already worand there are many points of contact in for measuring physiological parameters

relevant to think about many things in universities or companies - don't have In the 15 years of its existence, Infineon an entrepreneurial or business manage- sufficient mass on their own. And, where has experienced more change and dement way – and it helped us succeed with else would this approach succeed if not velopment than many companies do in many of the things we were trying to do. in the 'clusterland' of Styria? For us as a hundred years. We already invested The founding of the Human Technology a freshly created university, the fact in the heath and medical field many Cluster became possible because multiple that the regional agencies demonstrably years ago, for example working on 'lab interested parties came together and crea- knew how to set up a cluster gave our on a chip' concepts and on wearable electronics. Today we are concentrating

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on our three focus areas of energy effi- things we are interested in are the same ciency, mobility and security. And cli- or complementary in some way. We want ents regularly come to us with inquiries to work with the best, and I hope we're about developments in the life-science attractive to the best. sector

of the future?

Herlitschka: Energy efficiency is defini- Herlitschka: It's an interesting paradox, In these areas we provide technologies real world in a cafeteria, is so enormousthat account for only a small fraction ly important. And when we get back big benefits. This is how you can make e-mails about who is going to fly out the growth affordable.

for example, we produce the chips for But research usually happens in a regiothat allows encrypted processing of data. strong region. Of course, this kind of technology could also have a role in the healthcare sector,  $\quad$  b: On the subject of R&D: Infineon's R&D for example with 'ELGA', the electronic intensity of 23% sounds very impressive. patient file.

you're doing?

we have about 2500 employees, out university researchers. But you can't do of the total workforce of around 3100 research just based on what you can get people in Austria. If you add all of our a grant for; everything we do is based on suppliers, then it comes to a total of al- deep strategic convictions. If you look at most 4000 people who are constantly in the EU strategy 'Europe 2020', then the contact with us and who work with us. work we are doing can definitely con-With some of these suppliers we can say tribute a lot to reaching those goals. We there is a conceptual partnership, that have our headquarters in Munich but is, we are doing developments together. we are in global competition with China/ That's especially true of manufacturing. Asia and the USA. SMEs usually get in touch with a large industry player like Infineon because the **b**: Many thanks for the interview!

b: Do you find that being physically clob: What do you see as really big themes se to the supplier companies, like here in Villach, is an important factor?

tely one. Saving energy is one of the big- isn't it, that we communicate with people gest energy resources of all. The potential all around the world and at the same for improving energy efficiency is brea- time we find that being close to each thtaking, and the same goes for mobility. other, going for coffee together in the of the overall product costs and have from the cafeteria, we write each other next day to go to a meeting in Malaysia Data security is another big topic - so, ... I think both sides of this are important. the passports of US citizens. How did nal context. That's why the discussion of we manage to get this job as a European 'regions in Europe' matters to us, because company? We developed a technology we too will be able to grow better in a

What does that mean in hard numbers? Herlitschka: : It means that in the last b: Infineon itself almost has its own business year, we invested 270 million cluster in its network of suppliers. How euros of real money in R&D. Of course do you involve your suppliers in what we also take part in public research programs, whether they are European or Herlitschka: At our location in Villach national projects or collaborations with

## Sabine Herlitschka

"I believe it was absolutely the right decision at that time for the Government of Styria to extend cluster activities to a sector such as life sciences."

"In the 15 years of its existence, Infineon has experienced more change and development than many companies in a hundred years."

"We provide technologies that account for only a small fraction of the overall product costs and have big benefits. This is how you can make growth affordable."

"We want to work with the best and I hope we're attractive to the best.'



