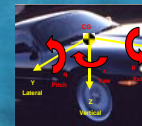
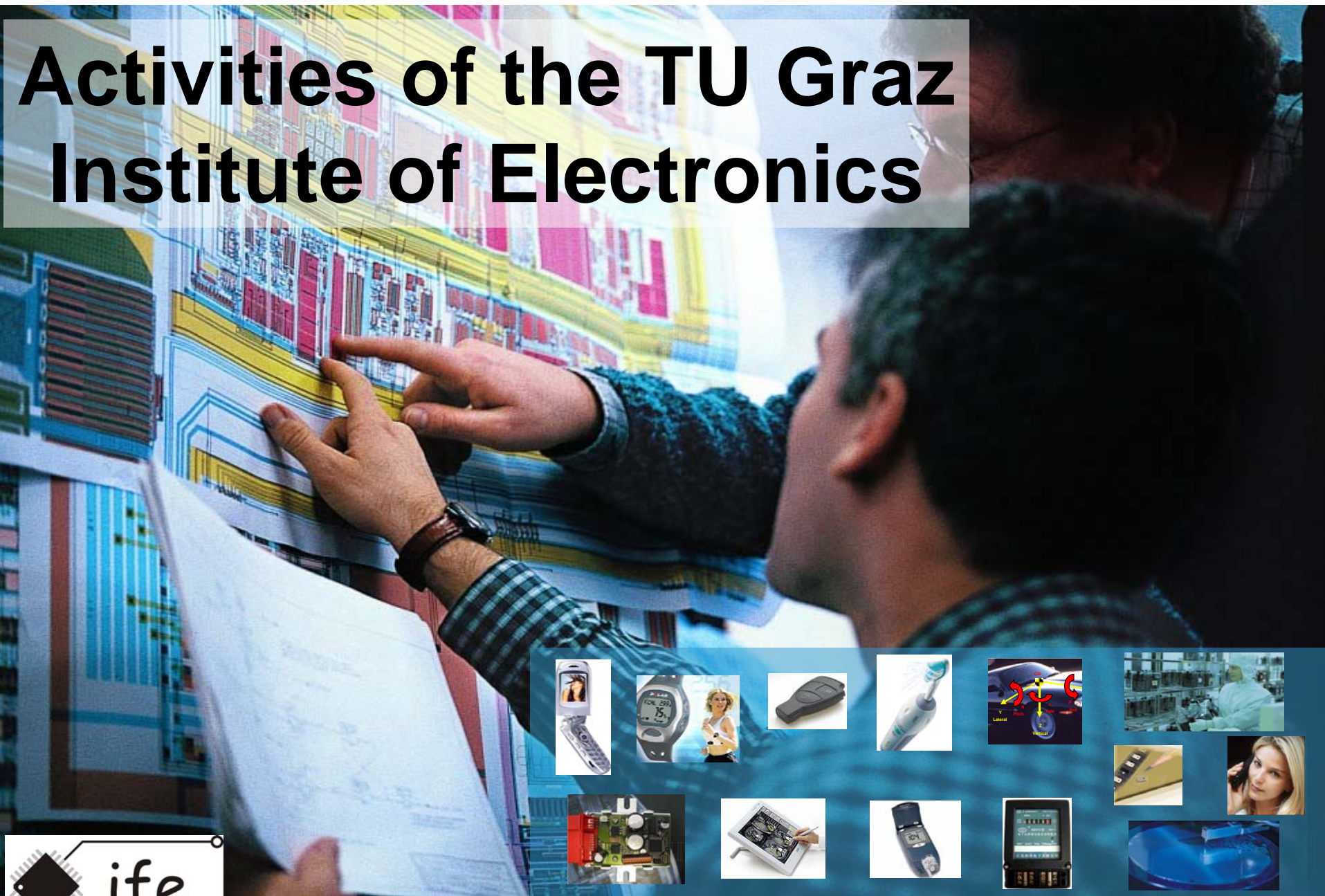
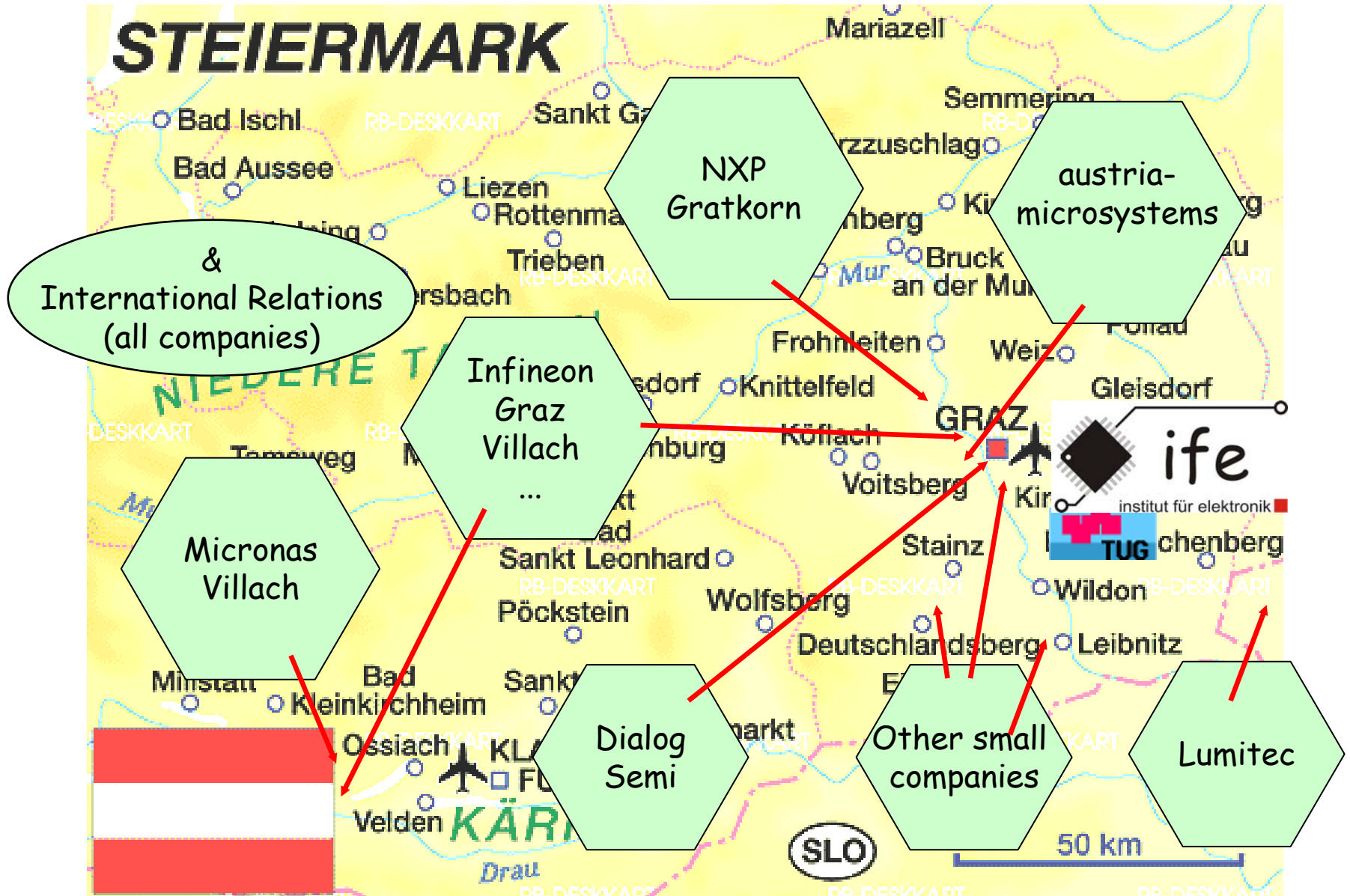


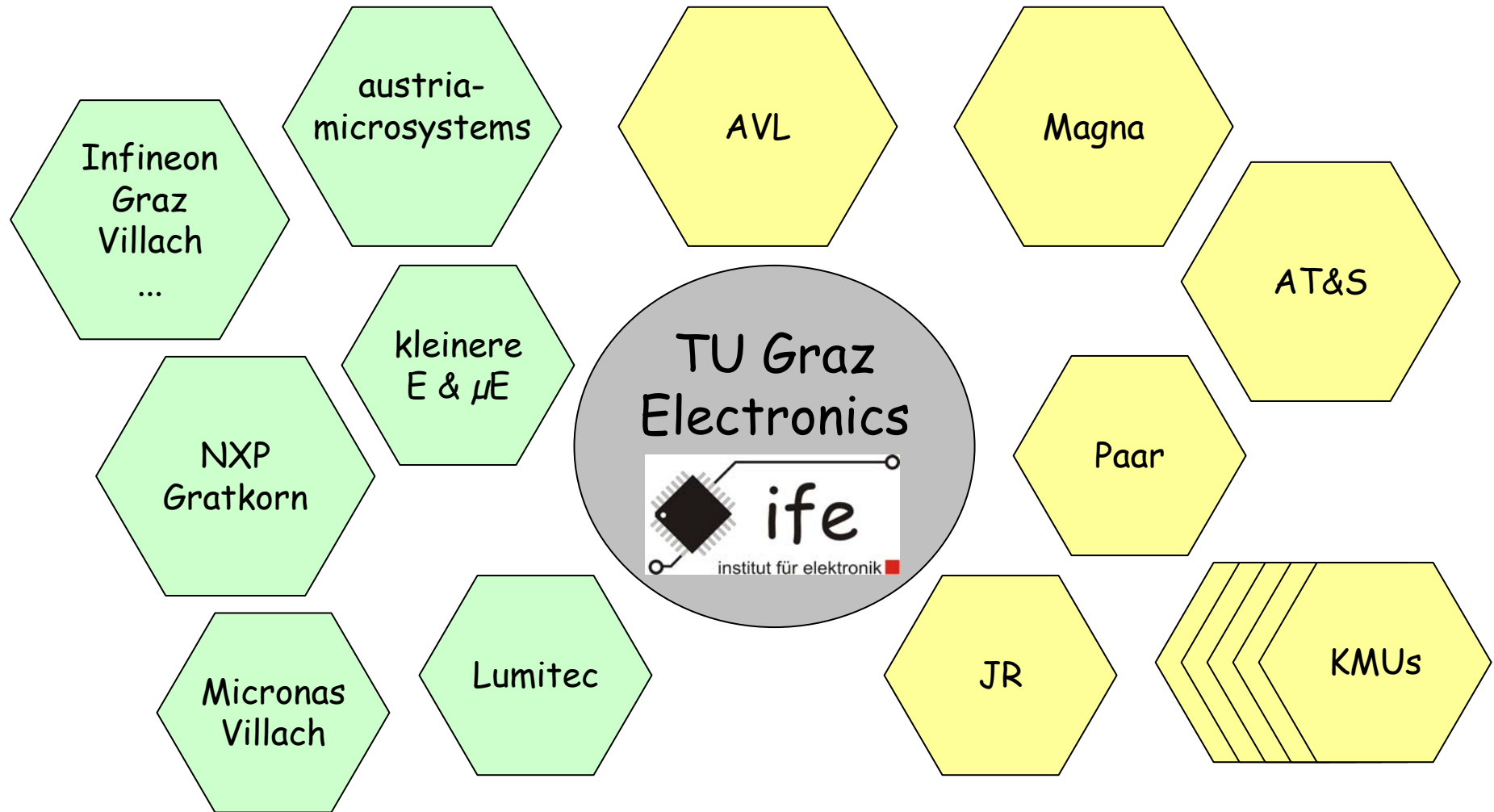
# Activities of the TU Graz Institute of Electronics



# Microelectronics companies in the region



# μE application companies



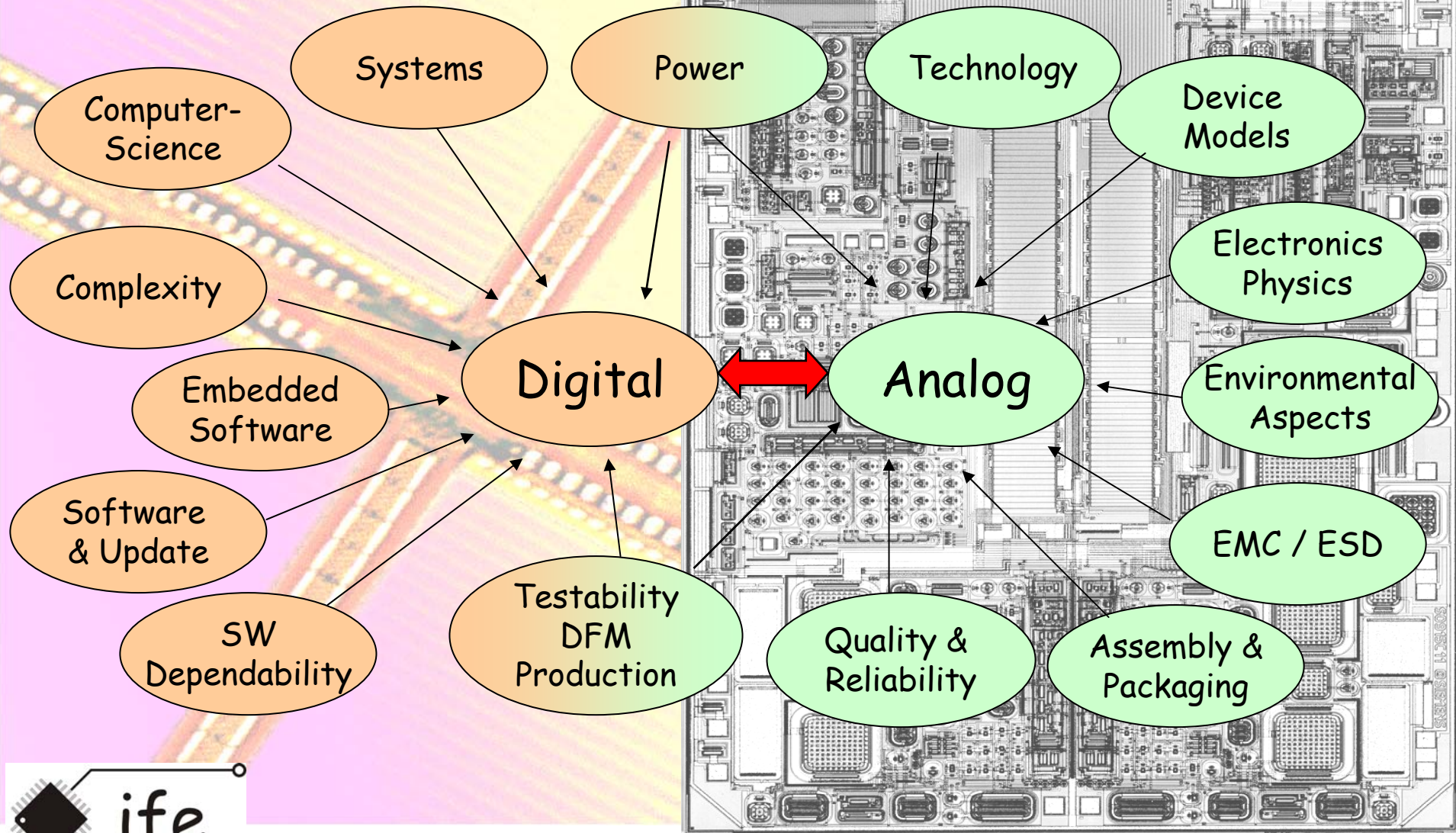
Activities at TU Graz related to  $\mu E$  can be found in several institutes, main topics are:

- electronics & microelectronics
- information technology & computer science
- „telematics“
- measurement & test engineering
- solid state physics
- electron microscopy and nanoanalysis

→ ICT is one of the key research/competence areas

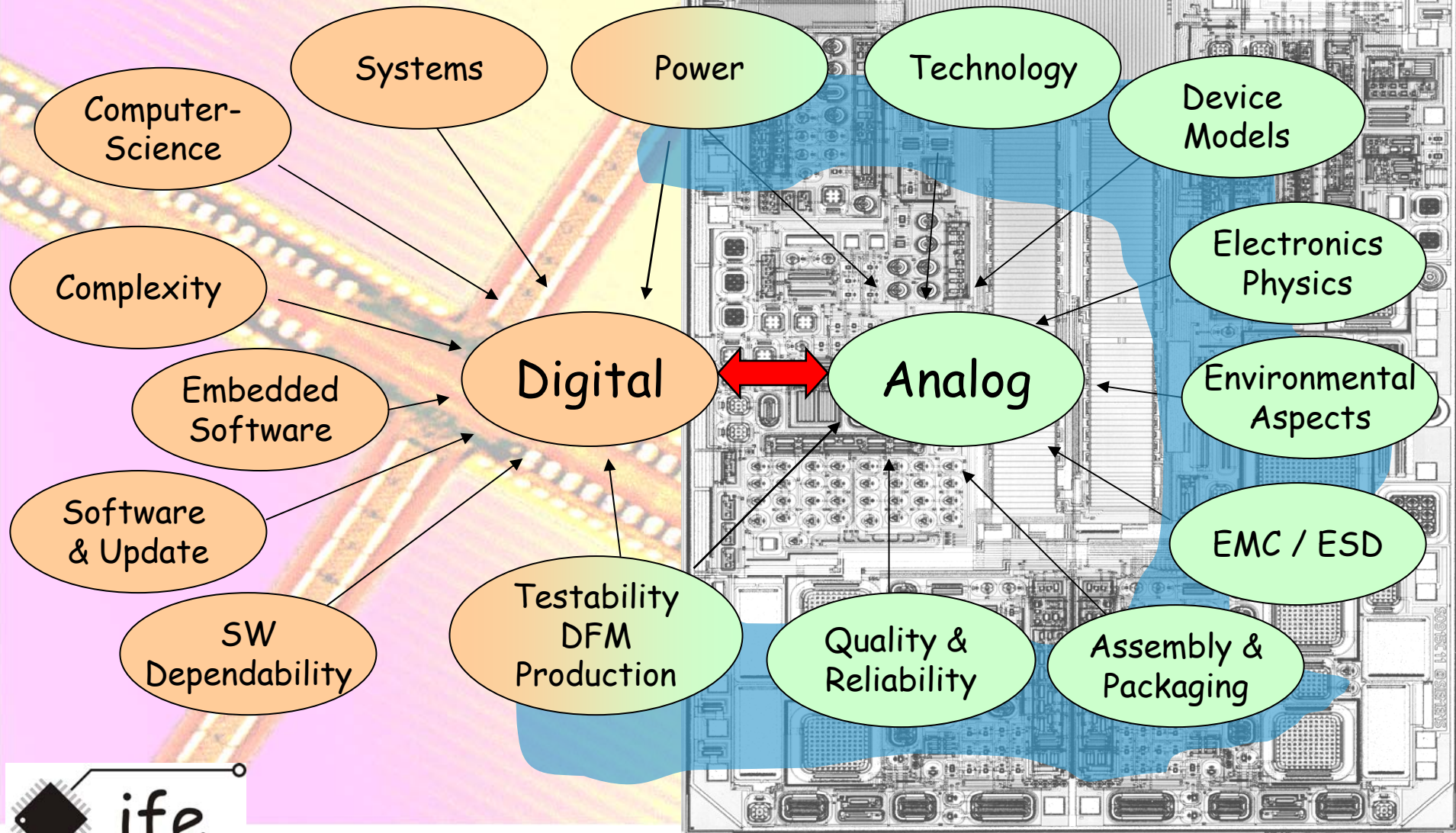
Digital Arena

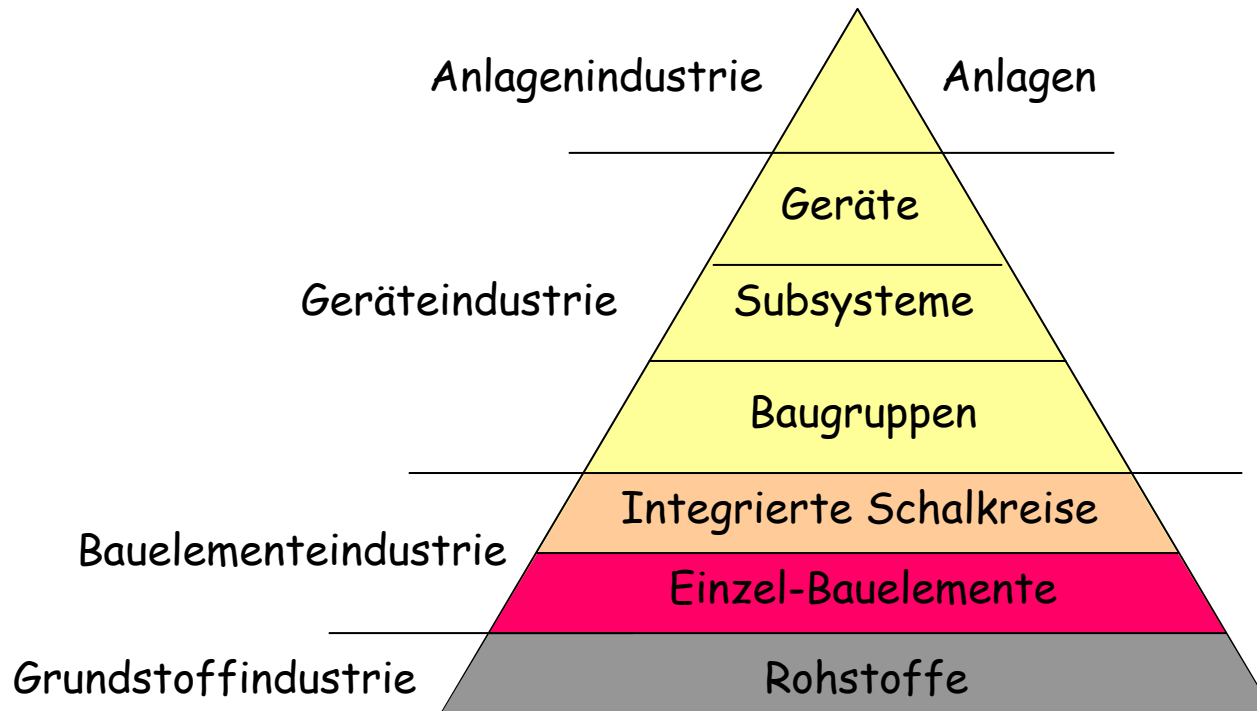
Analog & Mixed Signal



Digital Arena

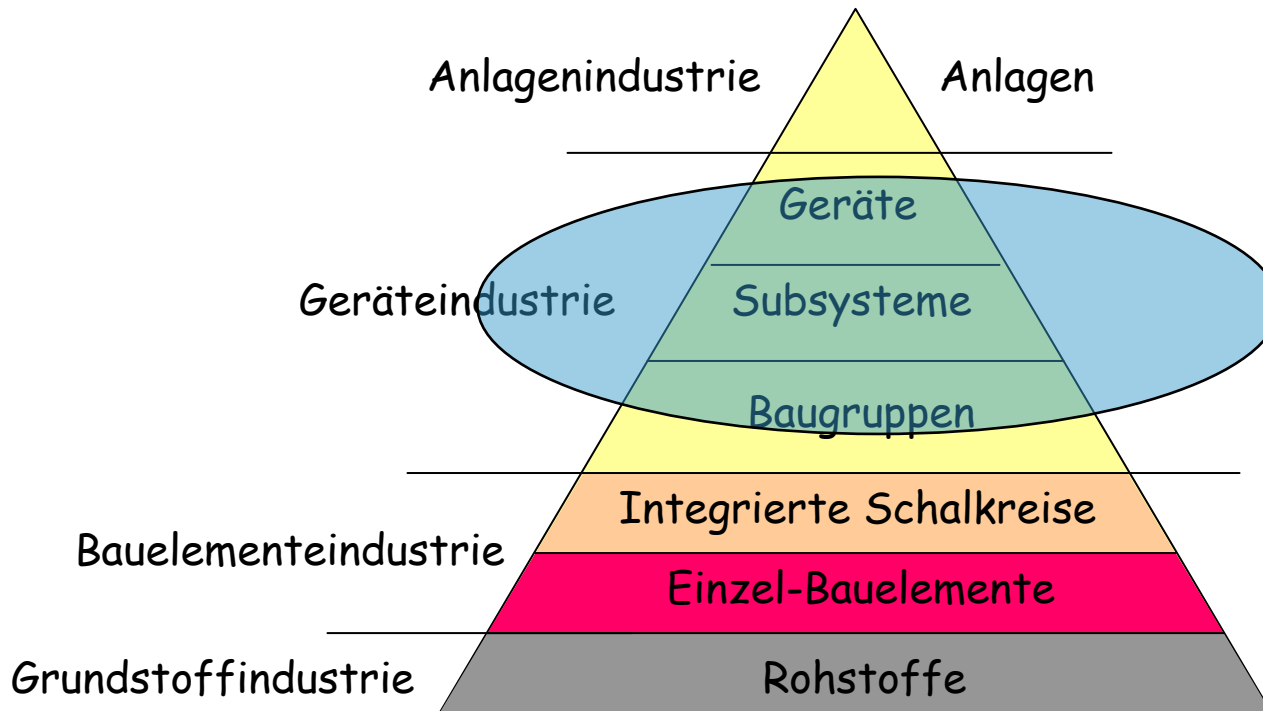
Analog & Mixed Signal





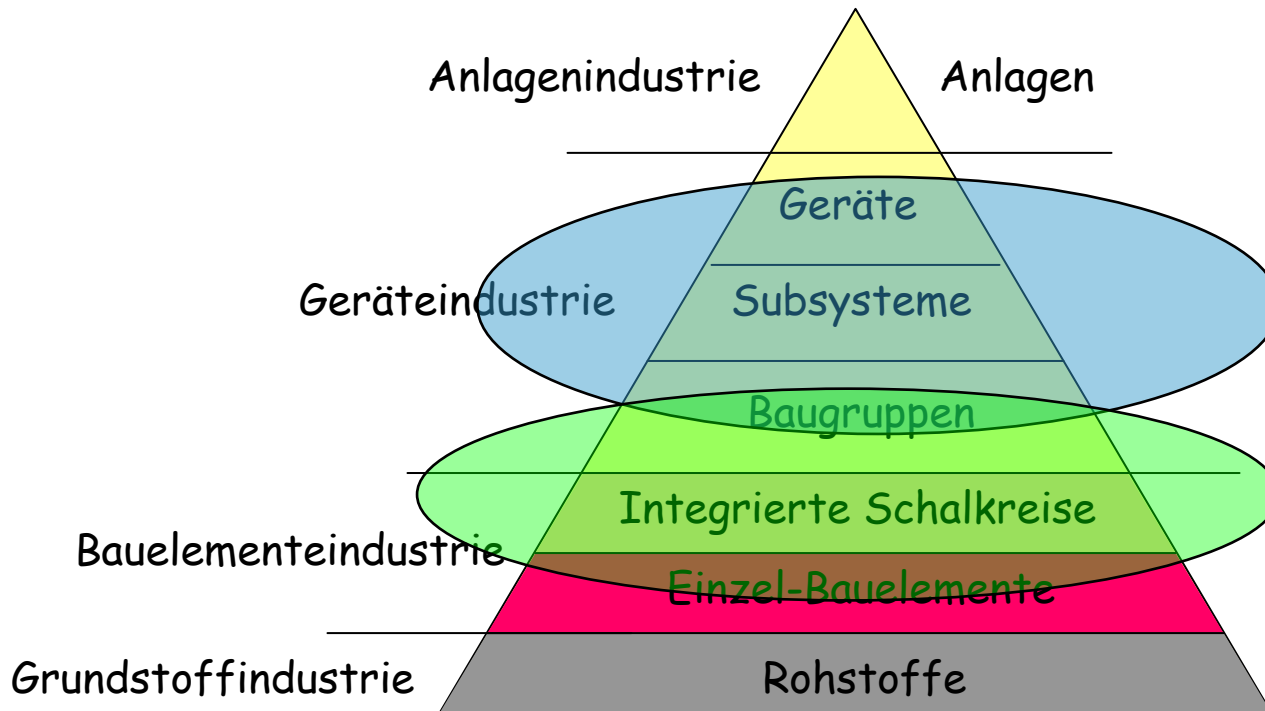
Conventional electronic systems, value chain pyramid

## IFE focus #1: electronic systems



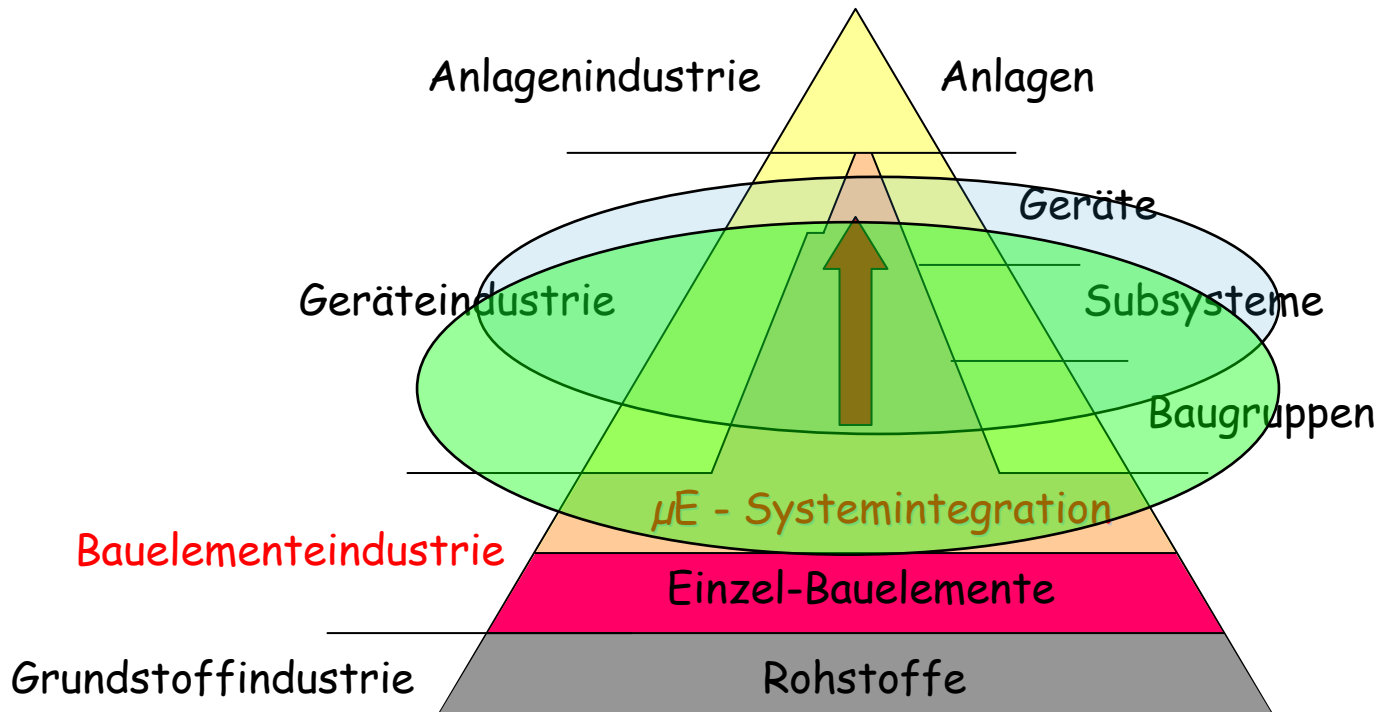
Conventional electronic systems, value chain pyramid

## IFE focus #2: integrated circuits



Conventional electronic systems, value chain pyramid

# IFE combined focus: integrated systems analog / mixed signal



Integrated electronic systems, value chain pyramid

## Research topics

ADU / DAU

EMC on system & chip level

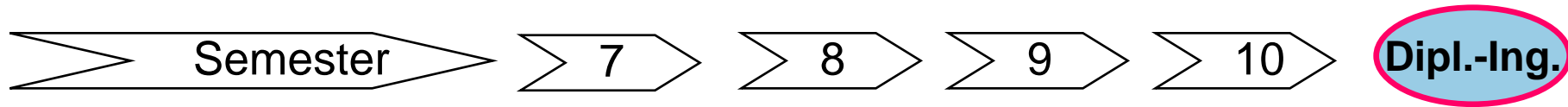
RFID low power front end  
RFID reader integration

power supply @ mixed signal SoC

high speed serial links

automotive electronics / busses

# Master - $\mu$ E / Analog Chip Design



## Pre-condition:

completion of 6 semester bachelor program @ TUG or comparable education

Duration: 3 semesters + thesis



Circuit Simulation	Diploma Thesis
Analog Basics	
Analog Advanced	
Technology	
Evaluation & Test	
Project Management	
Special Topics	

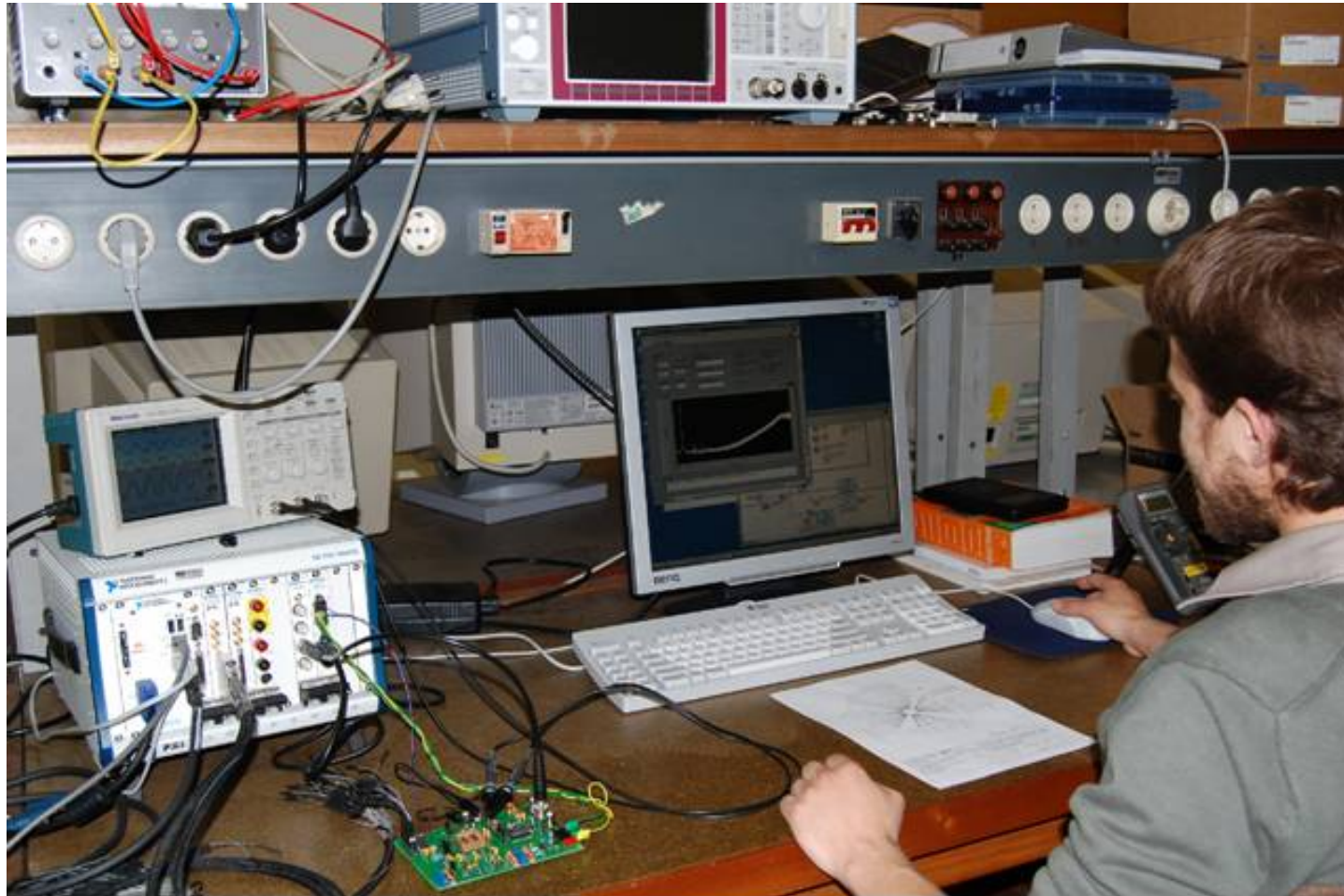


Regular master program @ TU Graz starting in WS 2007/08

# Automotive electronics for the TUG racing car



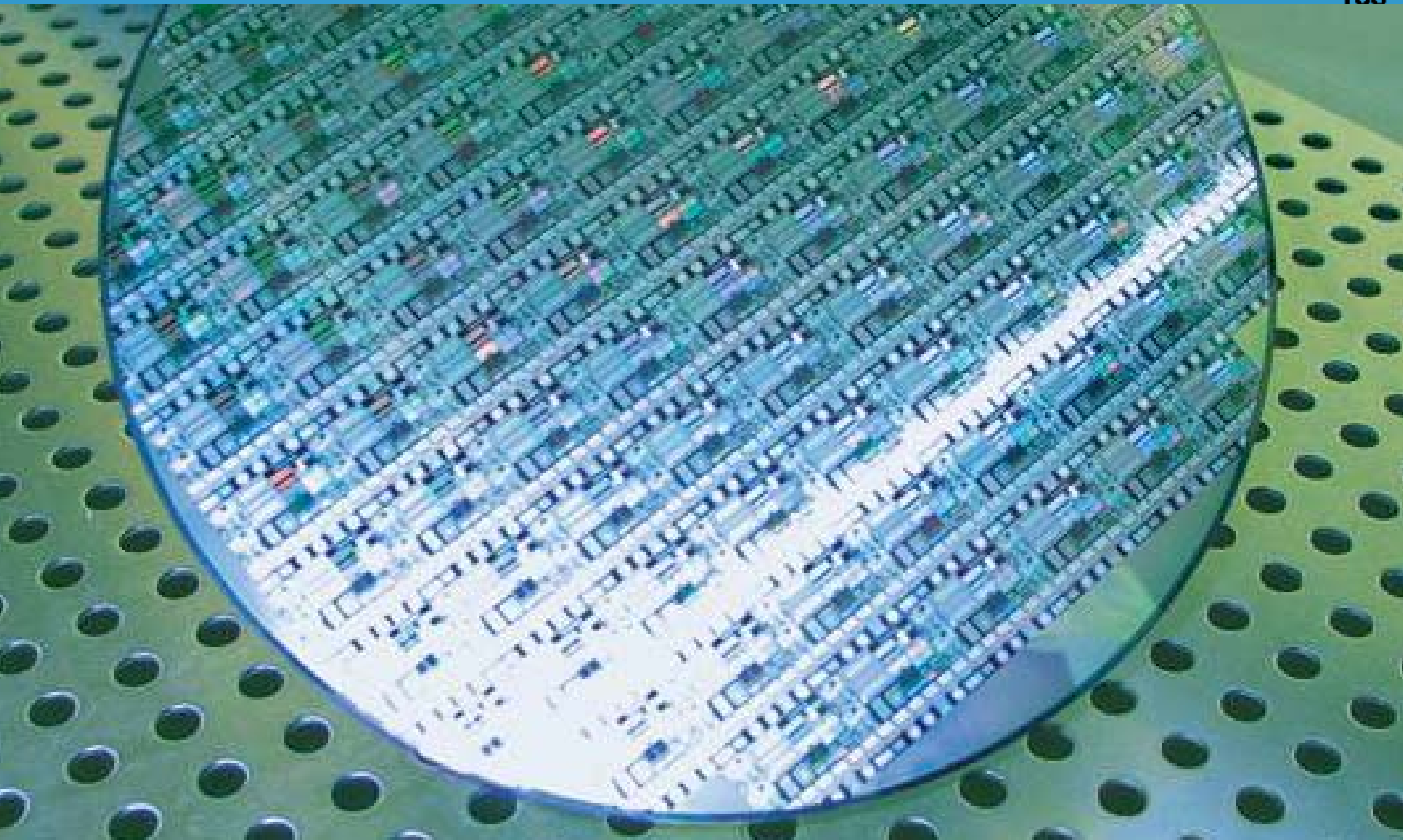
# High performance audio signal analysis for mobile music platform circuits





Analog chip design  
Master program

Lecture & training  
using state of the art  
CAD tools



**Thank you for your attention**