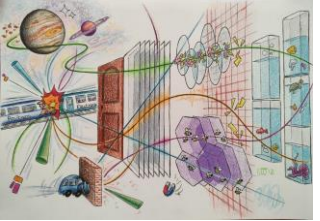


# WG6 - Non-silicon semiconductor and other material studies. Introduction

Giulio Pellegrini, Thomas Koffas,  
Alexander Oh, Xin Shi, Thomas Bergauer

- Introduction [G. Pellegrini ]
- Strategic R&D and opportunities - future activities [T. Bergauer]
- Plan for deliverables/milestones [ Xin Shi, online]



# WG6: Community composition

## WG6:

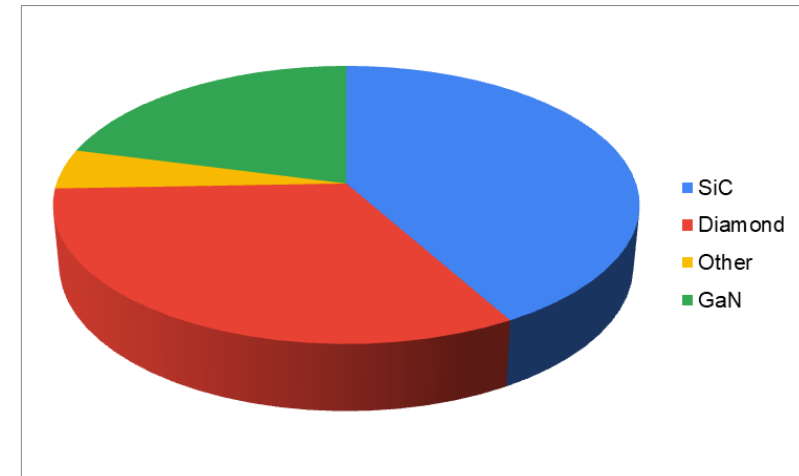
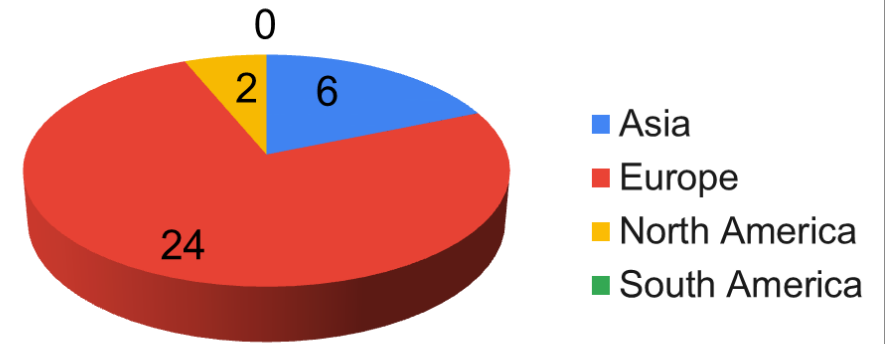
- 32 institutes (36% of 88) allocated FTE to WP6
- Anticipated FTE: 41.5 senior and 55.9 post-doc, students
- 14 are interested in Diamond, 18 in SiC, 9 in GaN and 2 in Sapphire

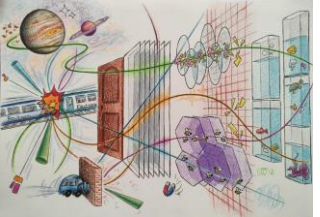
32 institutes from 3 continents  
Asia, Europe, North America

From 19 countries:

Austria, Canada, China, Germany, India, Israel,  
Japan, Lithuania, Romania, Slovenia, Spain,  
Switzerland, UK, USA, Czech Republic, Italy,  
Netherlands, Montenegro, Finland

Participating Institutes

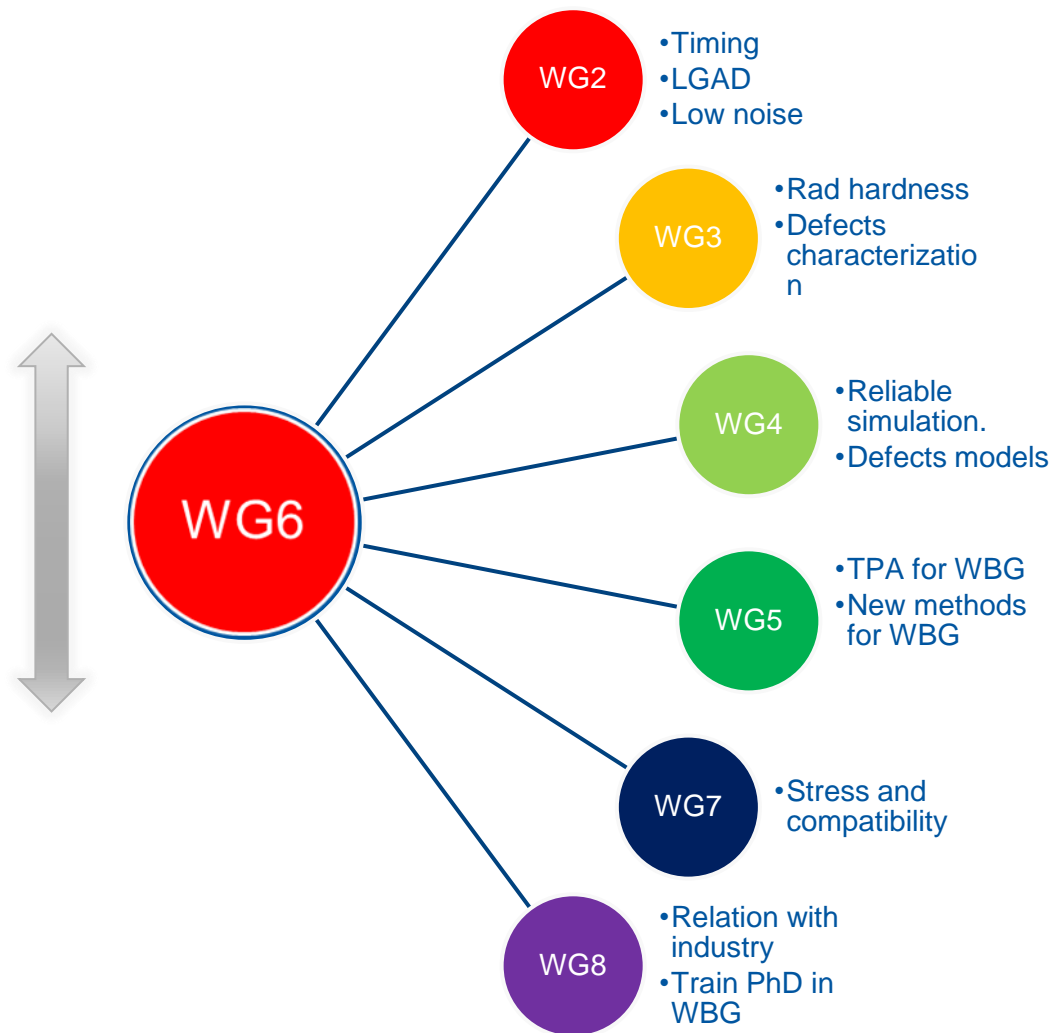


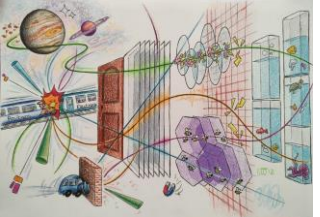


# Interconnection with other WGs

**DRDT3.2.** Develop solid state sensors with 4D-capabilities for tracking and calorimetry

**DRDT3.3.** Extend capabilities of solid state sensors to operate at **extreme fluences**





# Synergies with other fields (Funding opportunities)

DRD3

## Large use in many applications (planar devices):

- **Dosimetry** : solid state ionisation chambers detecting x-rays or hadrons (FLASH)
- **Beam conditions monitors**
- **Synchrotrons**: solid state ionisation chambers and fluorescence detectors
  - Beam position and intensity monitors
- **Space**: deep UV detectors (ESA)
- **Heavy ions**: start detectors and spectroscopy (e.g. GSI and the
- **Neutron detection**: nuclear industry, research and dosimetry
  - Thermal neutrons: fluence and profile monitoring
  - Fission neutrons : nuclear
  - Fusion: Tokamaks

