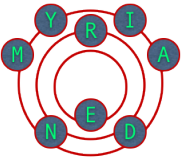




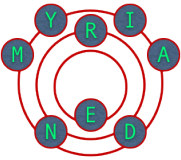
Applied research by SME's



# What is DevLab?

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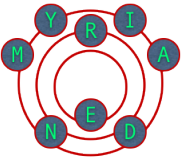
- Development Laboratories
- Initiative of 12 SME's in the Netherlands
- Research and Development of new enabling technology
- Results and Knowledge (IP) is available to all 12 SME's
- Cooperation with Universities (TUD, TUE, UT, VU)
- Cooperation with the Polytechnics (HBO)
- Cooperation with Philips Research
- Students do their final study (Bachelor, Msc and Phd)
- Location: Campus of Tue, Eindhoven, the Netherlands



# Research Projects

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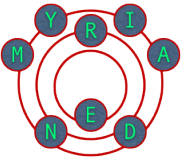
- MyriaNed
  - Wireless Sensor and Actuator Network
  - Large research network of 10,000 Nodes
  - Supports next two projects
- Atalanta
  - Mechatronics
  - Sensors and Actuators
  - Light Weight
  - Autonomous Energy
- Dutch Clay
  - Miniaturisation
  - Communication and distribution of Energy
  - Network Computing



# MyriaNed

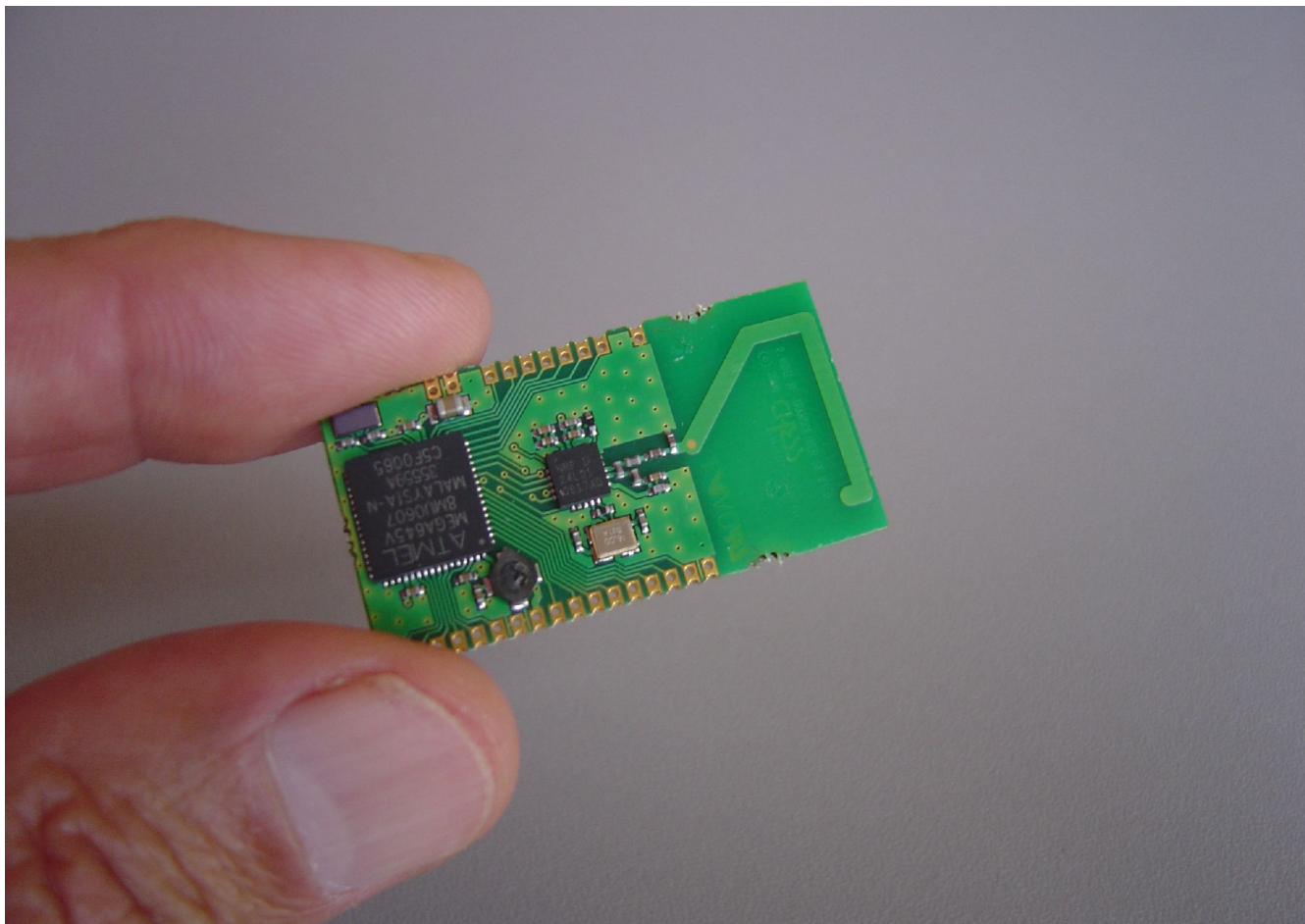
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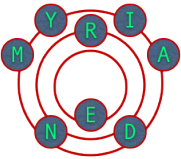
- Research Project in cooperation with: VU, TUD and UT
- Aiming at: Scalable, very large networks
- Inspired by biology and epidemics
- Ad-Hoc, Self organising: MAC and other Network Layers
- Based on Gossip data dissemination (VU: Prof. Maarten van Steen)
- Self synchronizing TDMA MAC (Chess, TUD: Dr. Koen Langendoen)
- Broadcast packet based radio (Currently Nordic 2.4GHz)
- Research for new radio techniques (UT: Prof. Jaap Haartsen)
- Today we have 500 MyriaNodes
- The plan is to have a research network of 10,000 Nodes



# The MyriaNode

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# Representatives at the WASP workshop

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- From DevLab Technical Committee:
  - Peet van Tooren, Almende
  - Frits van der Wateren, Chess embedded Technology

Further reading: [www.devlab.nl](http://www.devlab.nl) (Dutch)