



Umweltcluster Bayern:  
a strong network



## **Bavaria**

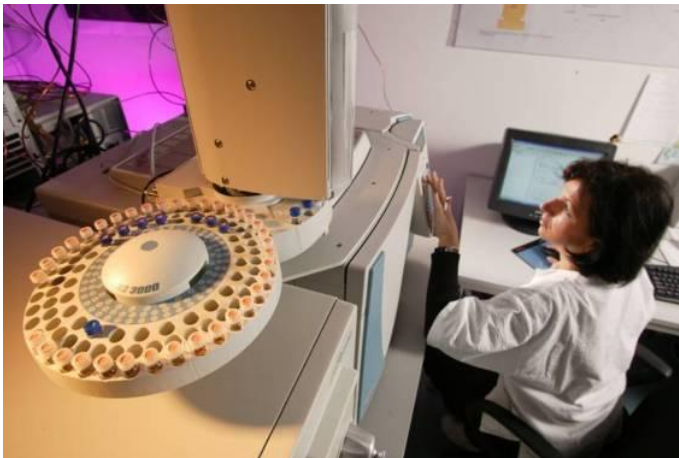
Intact ecology and flourishing economy

- Compliance with the legal ecologic standards is monitored
- companies provide the necessary technology



Foto source: Bayerisches Staatsministerium für Ernährung, Landwirtschaft und Forsten

- ~ 25% of German environmental technology enterprises are based in Bavaria, 20 % in total cleantech turnover
- 15 universities offer 51 study courses related to environmental topics for around 6.000 students
- numerous independent research institutes
- over 700 patent applications in 2009



# Cluster-Offensive Bayern

## 19 competence fields

### materials

- new materials
- chemicals
- nano technology

### information and electronics

- information and communication
- sensorics
- power electronics
- mechatronics and automation

### services and media

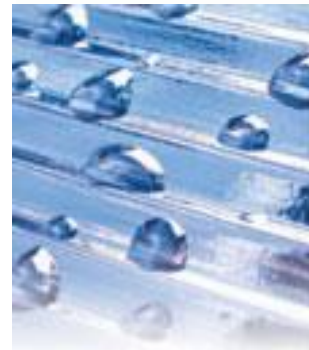
- financial services
- media & print

### mobility

- Automotive
- Railway technology
- Logistics
- Aerospace

### human and environment

- biotechnology
- medical technology
- energy technology
- **environmental technology**
- forrest and wood
- nutrition





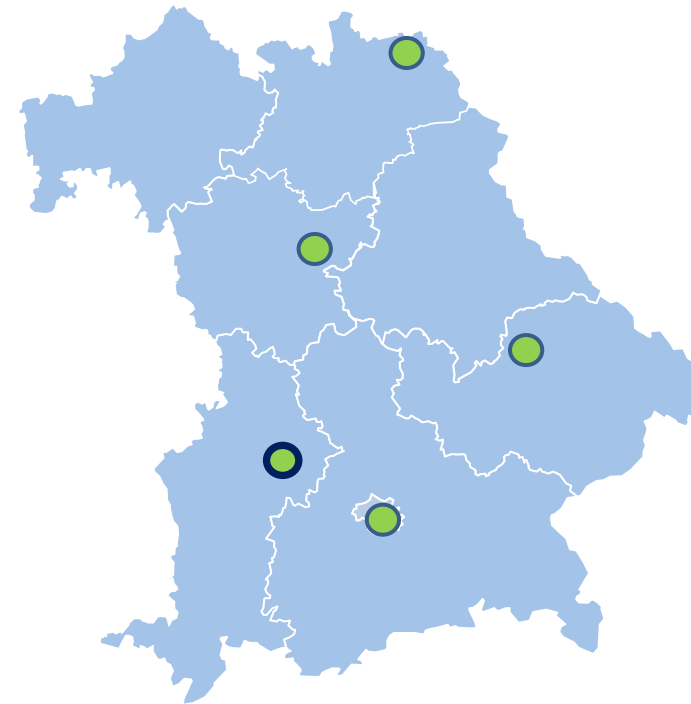
**Objective:** to support companies to develop, produce and sell market products through:

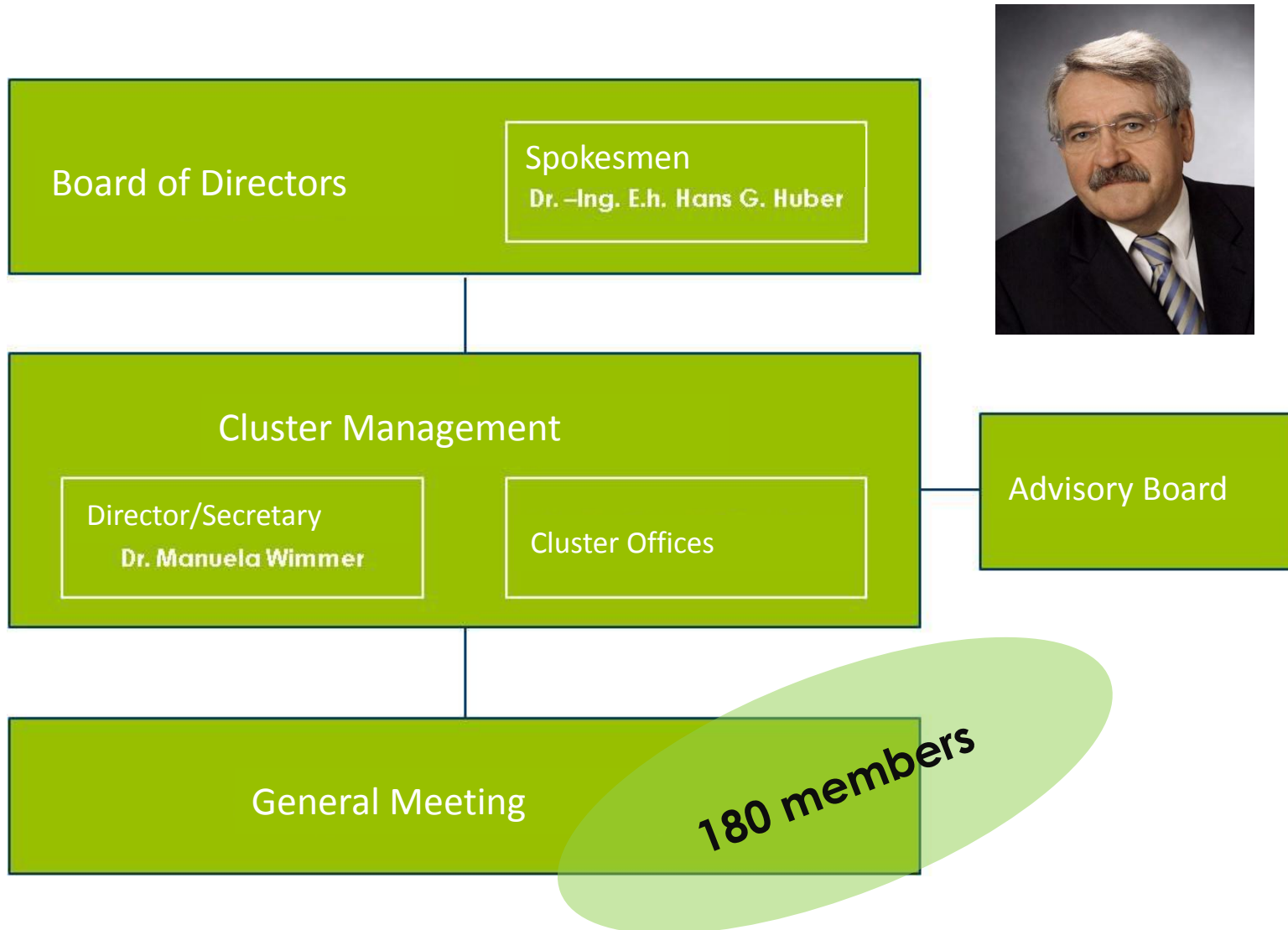
- Linking economy with science
- Bundling strengths (cooperation, contacts etc.)
- Providing information and know-how
- Helping to transform know-how in economic success

Duration 2006 to 2011 1<sup>st</sup> phase ; 2012 – 2015 2<sup>nd</sup> phase

## Promotion of SMEs in the field of environmental technologies

- Cross-linking + Knowledge transfer  
SMEs – research institutes – public authorities
- Initiating projects: waste heat in waste water, Energy saving in waste water treatment, energy from sewage
- Stimulate innovation
- Internationalization

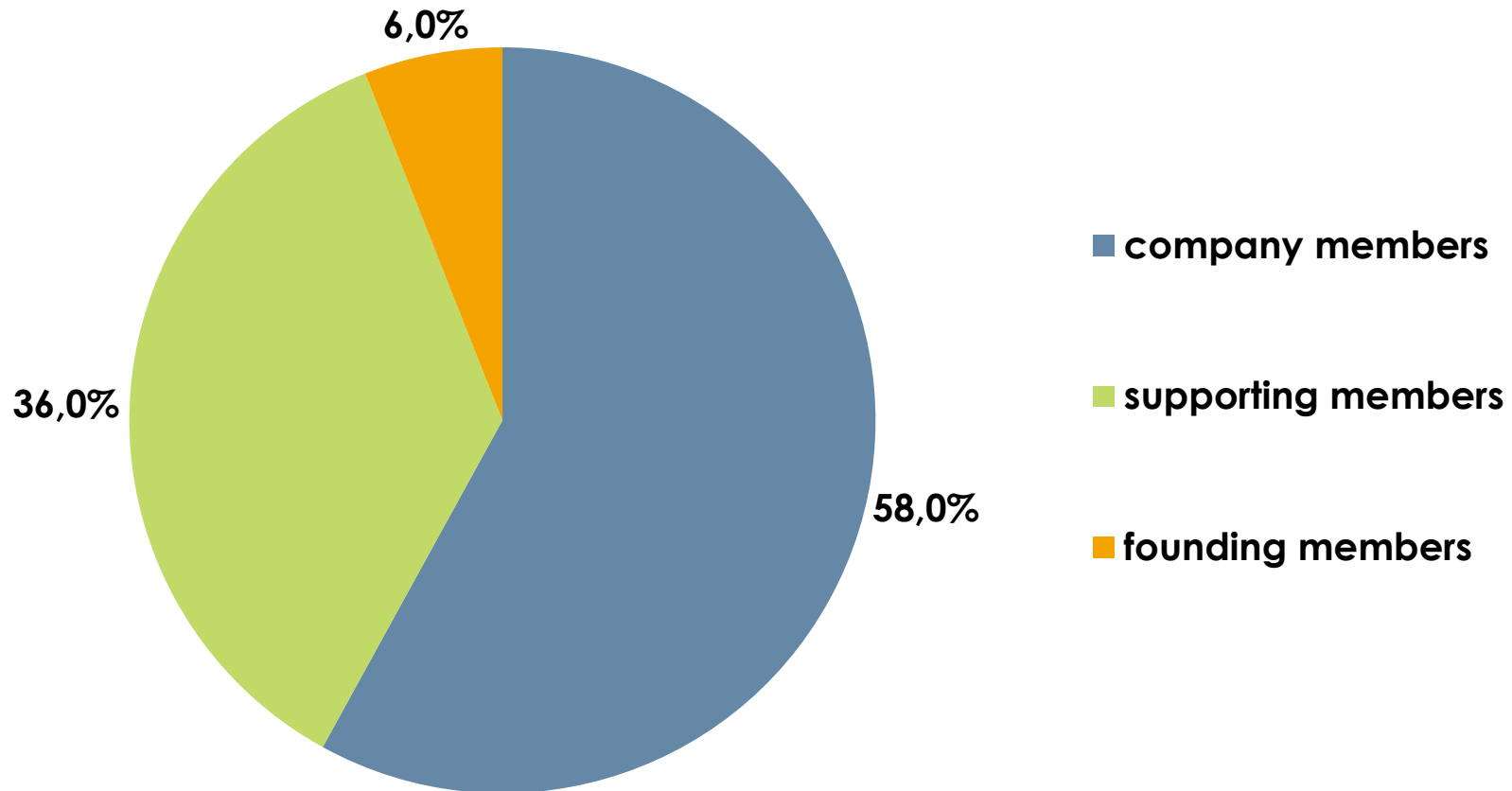


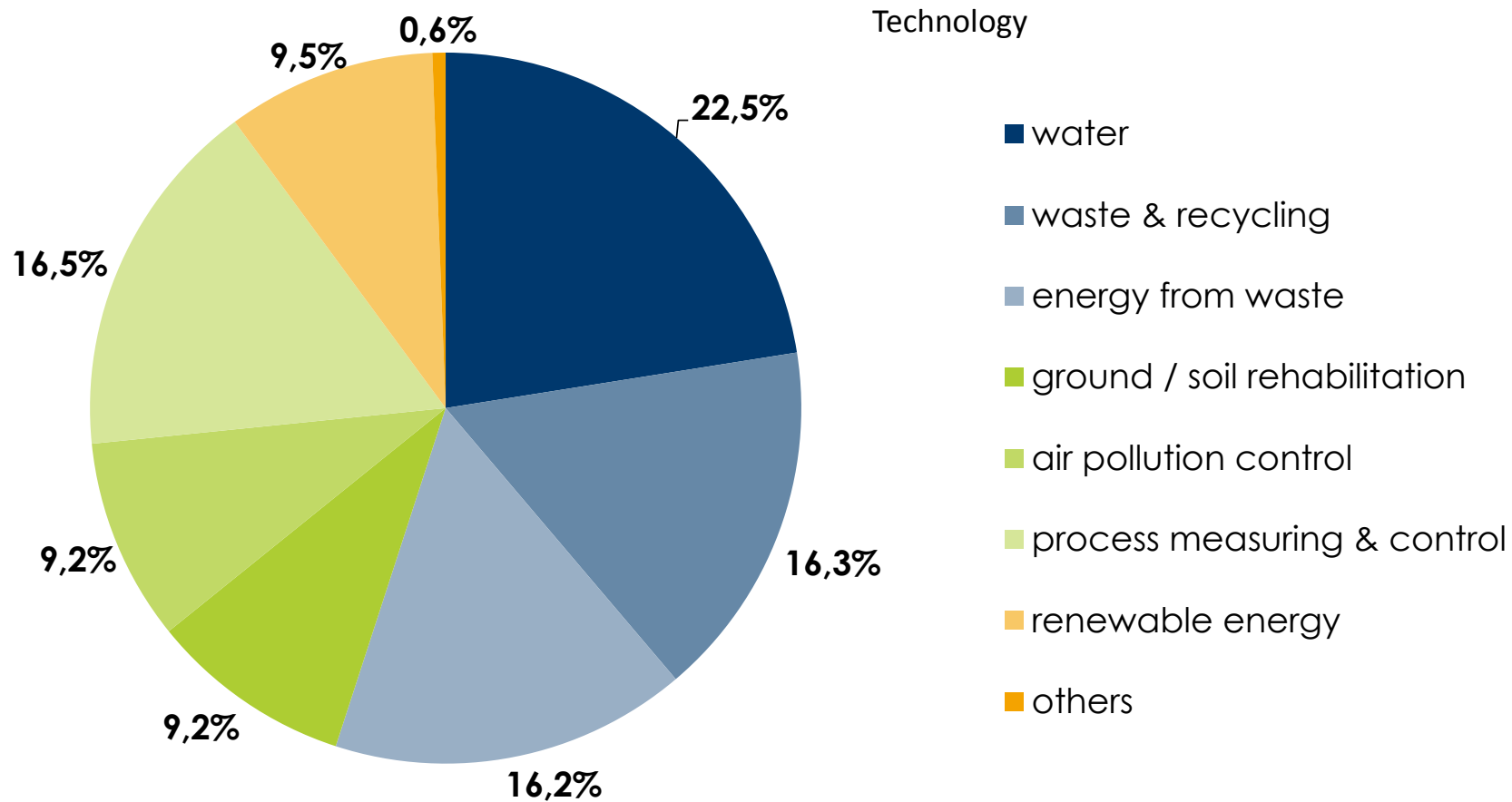


## Main competence fields

- Water and waste water treatment technologies (drinking water, industrial water, waste water)
- Waste treatment and recycling technologies
- Alternative energy generation, especially from waste and biomass (biogas, waste to energy plants)
- Resource efficiency (in products and production processes, machines as well as measurement and control engineering)
- Further climate protection technologies and applications (filter, air pollution control systems)







# Example: our company members



# Our Supporting Members



# International Network Partners



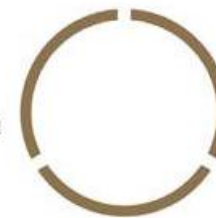
Représentation de  
l'État de Bavière au Québec



AIM Amsterdam  
Innovation Motor



International  
Water Association



Bayerisches Staatsministerium für  
Wirtschaft, Infrastruktur, Verkehr und Technologie



- Organization of conferences (e. g. IFAT)
- Organization of events such as cluster days, networking events, matchmakings etc.
- Establishing workgroups
- Advising (state subsidies, research facilities)
- Establishing contacts
- Initiating research & cooperation projects
- Supporting companies on their way to international markets
- Providing information on markets and branches
- Qualification and trainings



- Use of waste water heat
- Energy from waste
- Decentralized waste water treatment
- Wood destillation



Developing, supporting and awarding projects that ...

- are innovative
- function as model role
- can be reproduced and
- are inspiring for own applications



Examples:

- Sludge2energy – Energy and materials from sludge
- Water efficiency in a laundry application
- Mobile water treatment for foreign deployment
- Use of waste water heat in Straubing



**Thank you!**  
**Any questions?**



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