

Alguns dados relativos ao programa doutoral em Avaliação de Tecnologia

António B. Moniz

(coordenador do programa doutoral em AT, FCT-UNL, Portugal)

Institute of Technology Assessment and Systems Analysis-ITAS, Dep. Innovation Processes



TA in Portugal - topics

- TA in Portugal in the last decades and recent evolution
- The PhD programme on TA
- Institucionalization of TA in Portugal
- Conclusions

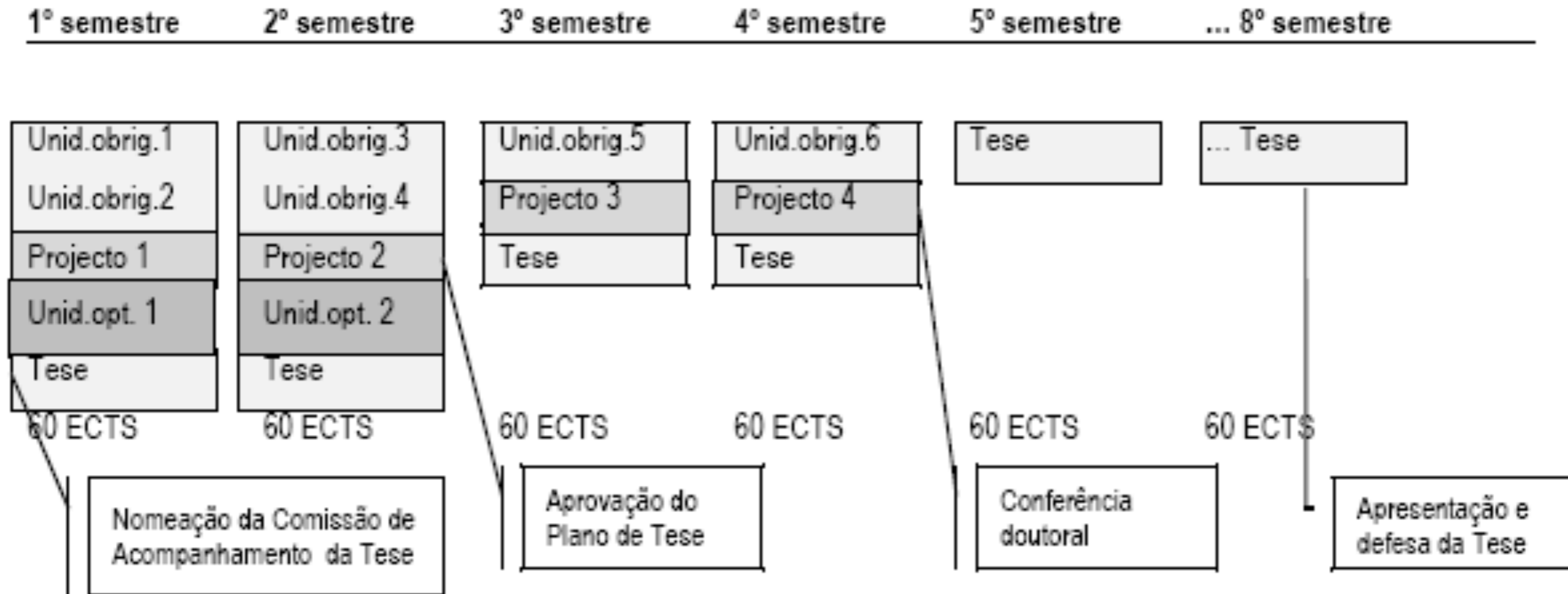
New phase of development of TA

- With the beginning of the PhD programme on TA at FCT-UNL in 2009 it started a critical mass of researchers with specialised training on TA that contributed to the increase of activities and scientific production.
- This PhD program had the involvement and collaboration of Karlsruhe Institute of Technology, Goethe Univ. Frankfurt and Univ. Duisburg-Essen (Germany), Univ. Twente (Netherlands), among others.
- In 2010 takes place the launch of the Grupo de Estudos em Avaliação de Tecnologia (GrEAT).
- 2011 began with the participation in the European project PACITA.

Recent evolution of TA in Portugal



The PhD programme



1st year

| Curricular units | Scientific area | Duration |
|--|-----------------|----------|
| From analogical to digital: paths of modern technology | HFCT | Semester |
| Interactive methods of participation and decision | CE | Semester |
| Project I | AT | Semester |
| Economy and innovation management | EG | Semester |
| Models of decision support | CE | Semester |
| Project II | AT | Semester |
| Thesis | AT | Annual |
| Option | ... | Semester |

2nd year

| Curricular units | Scientific areas | Duration |
|------------------------------------|------------------|----------|
| (1) | (2) | (3) |
| Methods of foresight analysis | AT | Semestre |
| Project III | AT | Semestre |
| Evaluation in science & technology | AT | Semestre |
| Project IV | AT | Semestre |
| Thesis | AT | Annual |

Scientific areas (credits)

| Scientific area | accronim | Credits | |
|--|----------|------------|---------------|
| | | Compulsory | Optional |
| Technology Assessment | AT | 204 | |
| Economics and Management Sciences | EG | 6 | |
| Engineering sciences | CE | 12 | 12 |
| History and Philosophy of Science and Technology | HFCT | 6 | |
| Free option | OL | 6 | |
| Total | | 228 | 12 (1) |

Evolução do número de estudantes

| Ano lectivo | Candidatos | Alunos | Fichas |
|--------------------|-------------------|---------------|---------------|
| 2011/12. | 3. | 2. | 2 |
| 2010/11. | 12. | 9. | 9 |
| 2009/10 | 13. | 6. | 6 |

Thesis under preparation

- **Nuno Boavida** - Decision making processes based on innovation indicators
- **Maria João Maia** - Technology Governance in Radiology: The example of Magnetic Resonance Imaging
- **Susana Martins Moretto** - Rail Industry Supply Chain Technology Assessment
- **Jorge Moura** – TA in the Brain Image Quality through Magnetic Resonance
- **Isabel Marques Rosa** – Electroencefalografic Assessment of Children with Auditive Deficits with and without Prothesis
- **Ana Clara Cândido** – Diffusion Process and Development of Cloud Computing Technology
- **Gabriel T. Velloso** - Bridging present and future of Brain-Computer Interfaces: An Assessment of Impact

The Portuguese Studies Group on TA (Grupo de Estudos em Avaliação de Tecnologia)

- In 2010 was founded the Grupo de Estudos em Avaliação de Tecnologia (GrEAT) as a form to start a process of TA institutionalization in Portugal. It grouped most people interested in the thematic, either researchers or practitioners.
- Has more than 70 followers at Facebook, and around 40 at the GrEAT webpage.
- In 2011 started the Portuguese participation in the European project PACITA.
- GrEAT recently initiated a process of organization of working groups, corresponding to specialized fields as, health TA, mobility and transports, foresight and support to the policy decision.

A growing network

- The starting activities of the scientific reading club *Reading Labs* and the launch of GrEAT enabled the development of further nodes of the Portuguese TA network.
- Around these activities was possible to maintain a presence in several scientific networks, as
 - Mendeley.org;
 - ReserchGate.net;
 - Academia.org;
 - ShapingTomorrow.com and
 - A page on TA in Portuguese language at pt.Wikipedia.org;
 - Institucional pages developed at Wordpress.com:
 - Facebook.com
 - LinkedIn.com (under preparation).

Conclusions

- The recent development of TA in Portugal has a multi-disciplinary source (economics, sociology, political science, ethics, health sciences, computer sciences, nanotechnology, automation).
- A PhD programme is structuring a group of researchers
- O futuro das actividades de AT deverão ocorrer de uma forma cientificamente independente, sistemática e financeiramente estruturada, de forma a evitar a dependência do governo ou de grupos de pressão que actuam casuisticamente e de forma nem sempre clara na sociedade portuguesa.
- A institucionalização da AT poderá dar relevo à necessidade de uma orientação política consensual para o sistema científico, tecnológico e de inovação nacional, que possa ser base de conhecimento para desenvolvimento do próprio país.

Ligações e contactos

- GrEAT
 - <http://avaliacaotecnologia.wordpress.com>
- Programa de doutoramento em AT
 - http://iet.fct.unl.pt/index.php?option=com_content&task=view&id=232&Itemid=271
- ResearchGate
 - <http://www.researchgate.net/group/Grupo-de-Estudos-sobre-Avaliacao-de-Tecnologia-GrEAT-Portugal/>
 - <http://www.researchgate.net/topic/Technology-Assessment/>
- Facebook
 - <https://www.facebook.com/pages/GrEAT-Grupo-de-Estudos-de-Avaliação-de-Tecnologia/143585172365702>
 - <https://www.facebook.com/EPTA.Network>
 - <https://www.facebook.com/pages/Reading-Labs-of-Technology-Assessment/196460653715166>
 - <https://www.facebook.com/groups/phdintechologyassessment/?ref=ts>