



European Technology Assessment Conference

TECHNOLOGY ASSESSMENT AND POLICY AREAS OF GREAT TRANSITIONS

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Equity in access to MRI equipment in an ageing Society : Portuguese Case

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2. Methods

3. Results

4. Conclusions

5. Remarks

- Medical Devices - MRI
- Access - Equity
- Portugal NHS
- Portugal thought indicators
- Number and distribution of MRI equipment
- Limitations

1. Introduction

Medical Technology

“... any instrument, apparatus, appliance, material or other article, whether used alone or in combination, including the software necessary for its proper application intended by the manufacturer to be used for human beings for the purpose of: - diagnosis, prevention, monitoring, treatment or alleviation of disease...”

(Official Journal of the European Communities 1993)



Medical Device

“... an article, instrument, apparatus or machine that is used in the prevention, diagnosis or treatment of illness or disease, or for detecting, measuring, restoring, correcting or modifying the structure or function of the body for some health purpose. “

World Health Organization (2011)



Medical Equipment

“...is used for the specific purposes of diagnosis and treatment of disease or rehabilitation following disease or injury; it can be used either alone or in combination with any accessory, consumable, or other piece of medical equipment. Medical equipment excludes implantable, disposable or single-use medical devices .”

World Health Organization (2011)

1. Introduction

Why MRI?

- Does not use x-ray
- Relevance in diagnose
 - cardiovascular disease
 - high sensitivity to fluids
 - accuracy
- Diagnostic possibilities
 - 3T...7T



Access



Geographic distribution of MRI equipment

1. Introduction

Portuguese NHS

Portuguese Constitution - Article 64.º - Health

2. The right to health protection is performed:

- a) Through a **national health service and general and universal**, taking into account the economic and social conditions of citizens, **tend free**;
- 3. a) Ensure **access for all citizens**;
 - b) ensure a rational and **efficient coverage nationwide** in human resources and health facilities;
 - e) To **regulate and control** the production, **distribution**, marketing and use of chemical, biological and pharmaceutical and **other means of diagnosis and treatment**;

The use of MRI by the Portuguese population

- Are performed 21.6 MRI exams per 1,000 inhabitants in Portuguese hospitals.
- There is no Convention agreement between the public and private HS for this types of exams.

CONVENTION is an adhesion contract signed between the Ministry of Health, through the Directorate General of Health (DGS) or Regional Health Administrations (ARS) and private persons, single or collective persons, that have the object Their provision of the health care, in Conjunction with the National Health Service, Integrating the national network of health care delivery.

2. Baseline Information

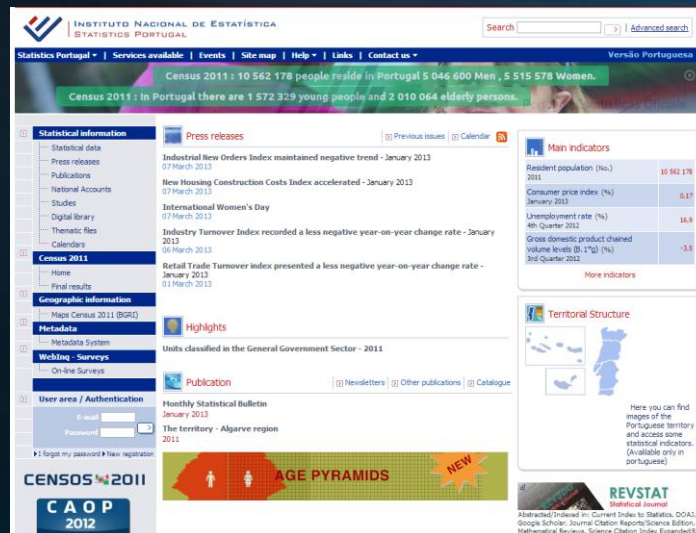
1. Portuguese Population

2. MRI installed capacity

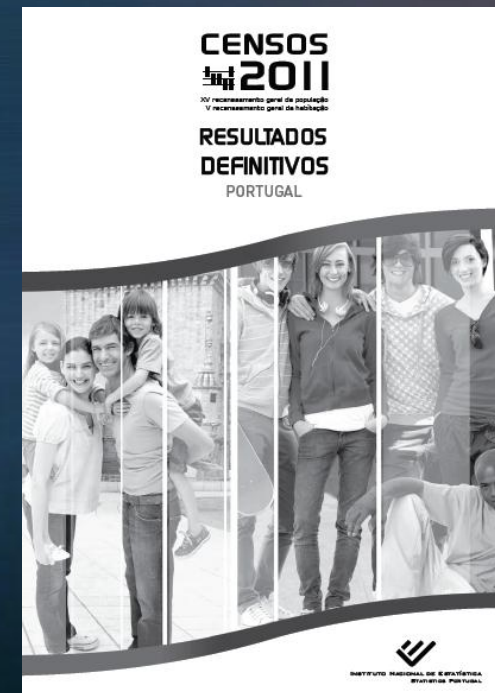
2. Baseline Information

Sources

1. Statistical Information on Portuguese Population



www.ine.pt



2. Baseline Information



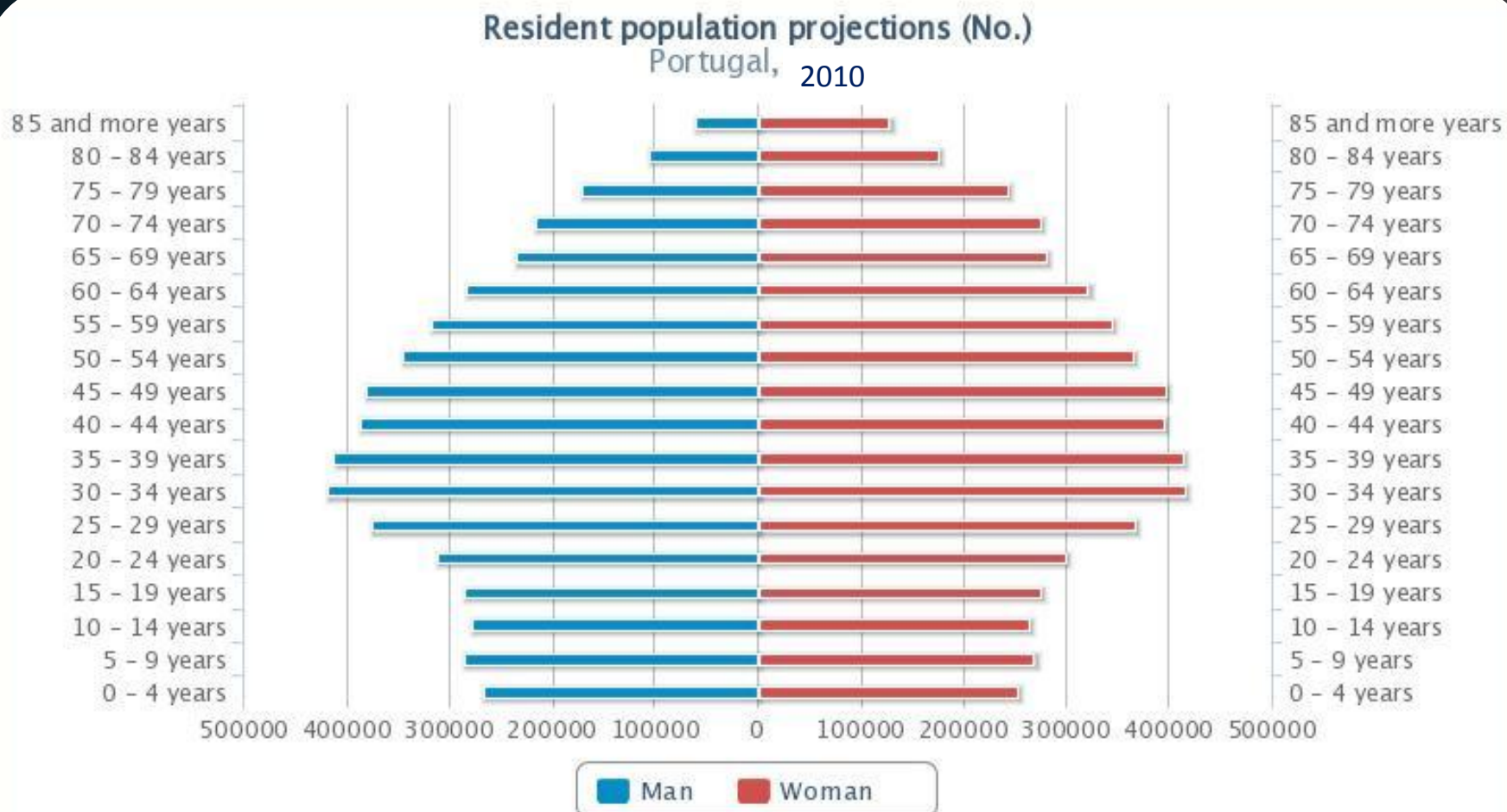
Sources

2. Baseline Information on MRI installed capacity

- ✓ Data collection (Maia, 2011)
- ✓ Contact with companies
- ✓ Document research
 - Web pages from Hospitals, Clinics...
 - International agencies reports (HTA)
WHO, OECD, EUnetHTA...
 - National agencies reports
DGS, ACSS, ERS...

3. Results

Age Structure



3. Results

Number and distribution of MRI equipment

A. Number and Characterization of MRI Units

B. Geographic Distribution

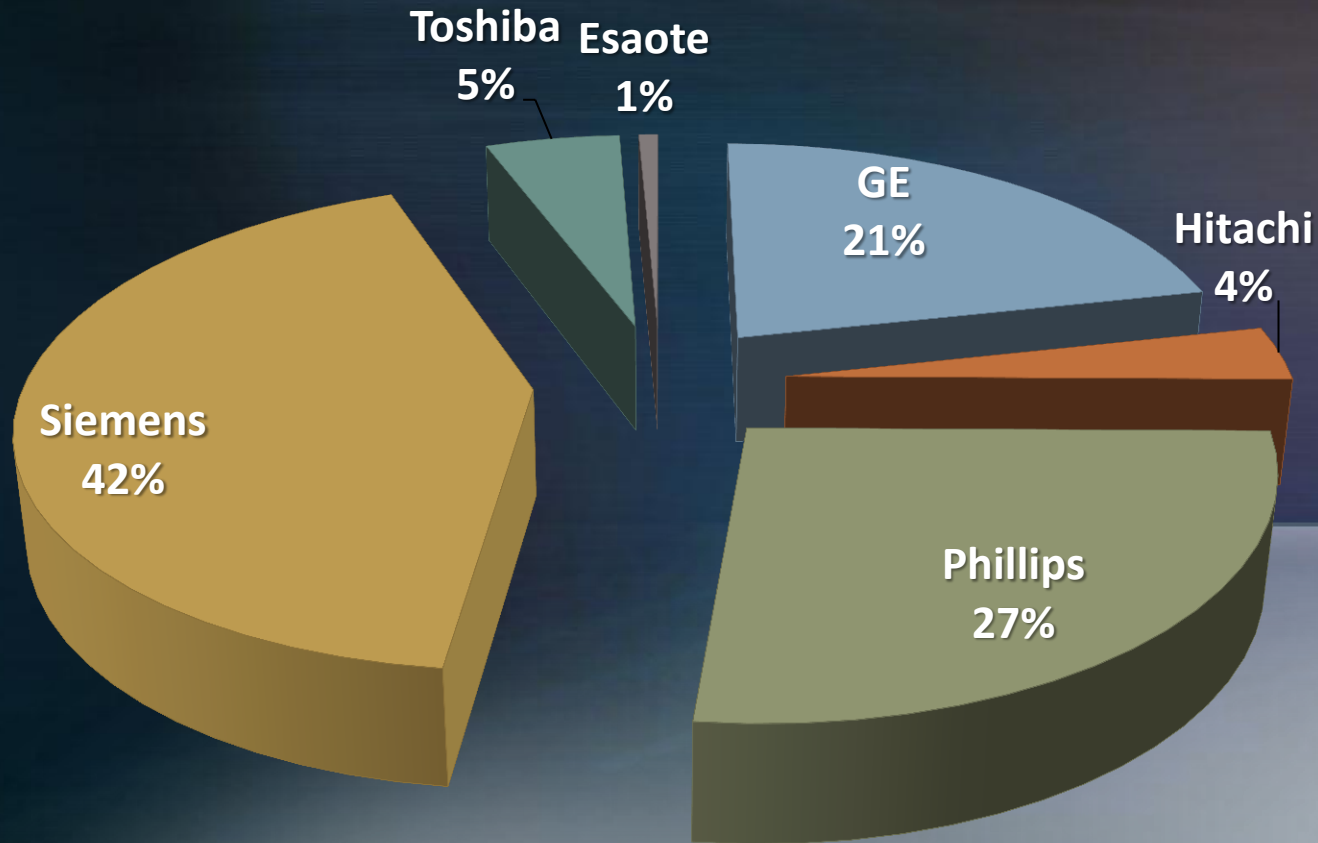
3. Results

A. Number and Characterization of MRI Units

Firm	Sector					
	Public		Private		Total	
	nº	%	nº	%	nº	%
GE	?	?	?	?	30	22
Hitachi	1	4	4	5	5	4
Phillips	11	42	26	31	37	27
Siemens	13	50	46	55	59	42
Toshiba	1	4	6	7	7	5
Esaote	0	0	1	1	1	1
TOTAL	26	100	83	100	139	100

3. Results

Number and Characterization of MRI Units

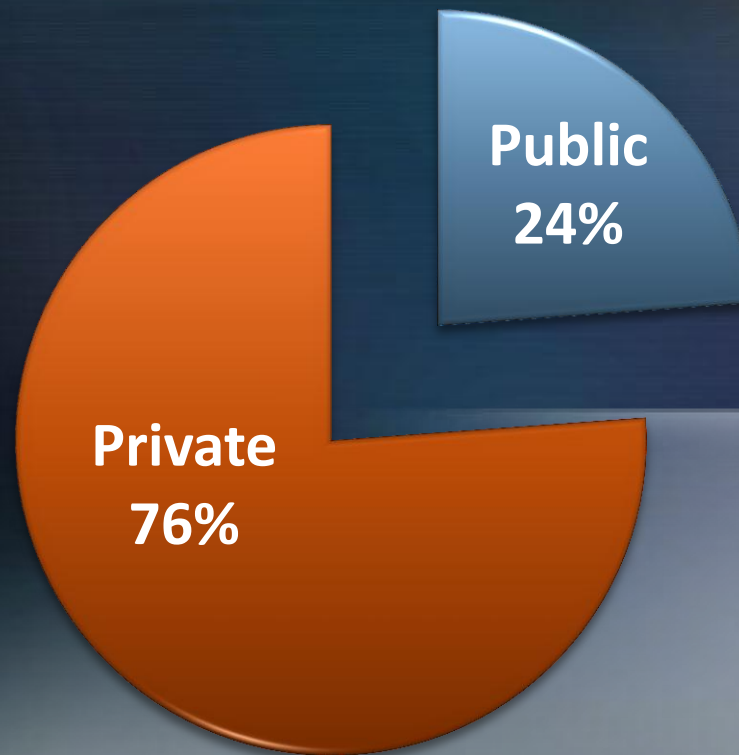


MRI equipment distribution in Portugal, by firm

3. Results

Number and Characterization of MRI Units

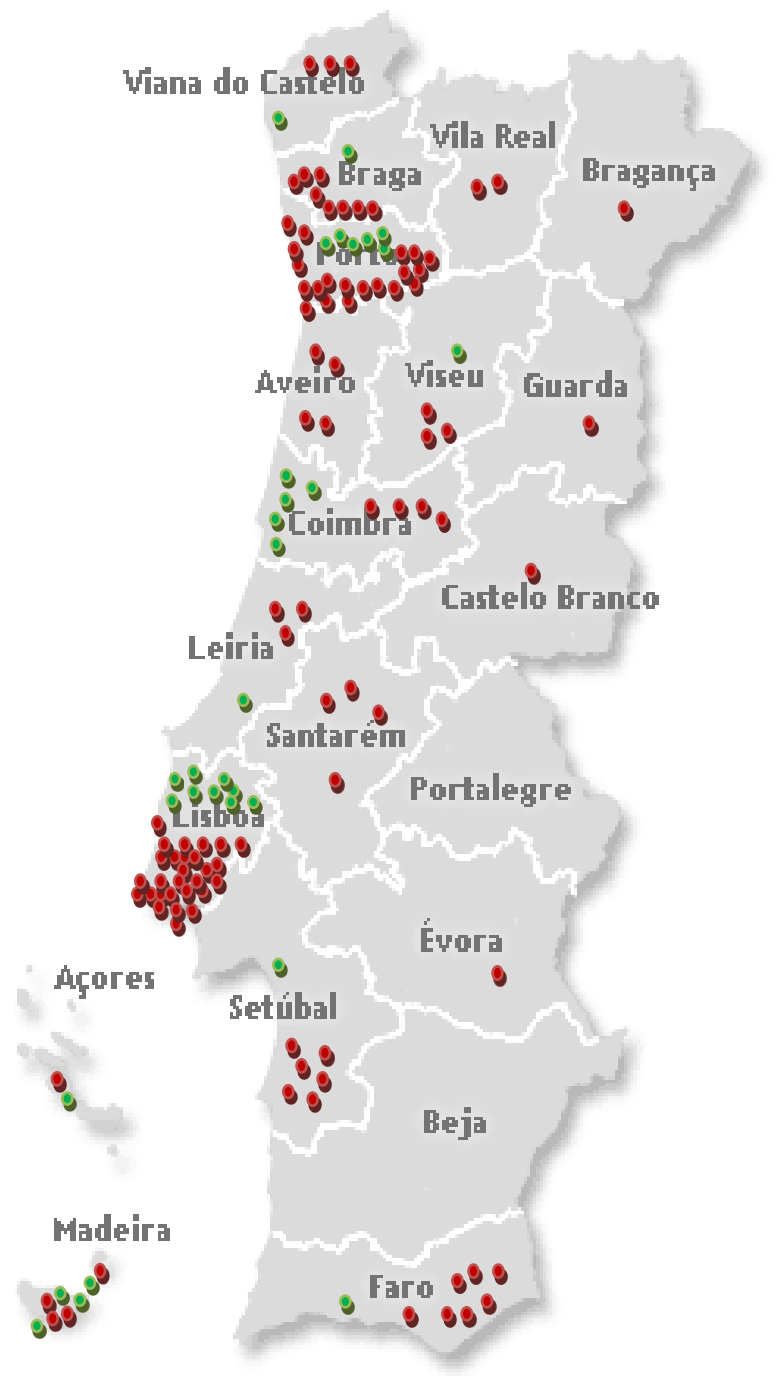
- *Institutional Distribution*



MRI equipment distribution in Portugal, by sector

3. Results

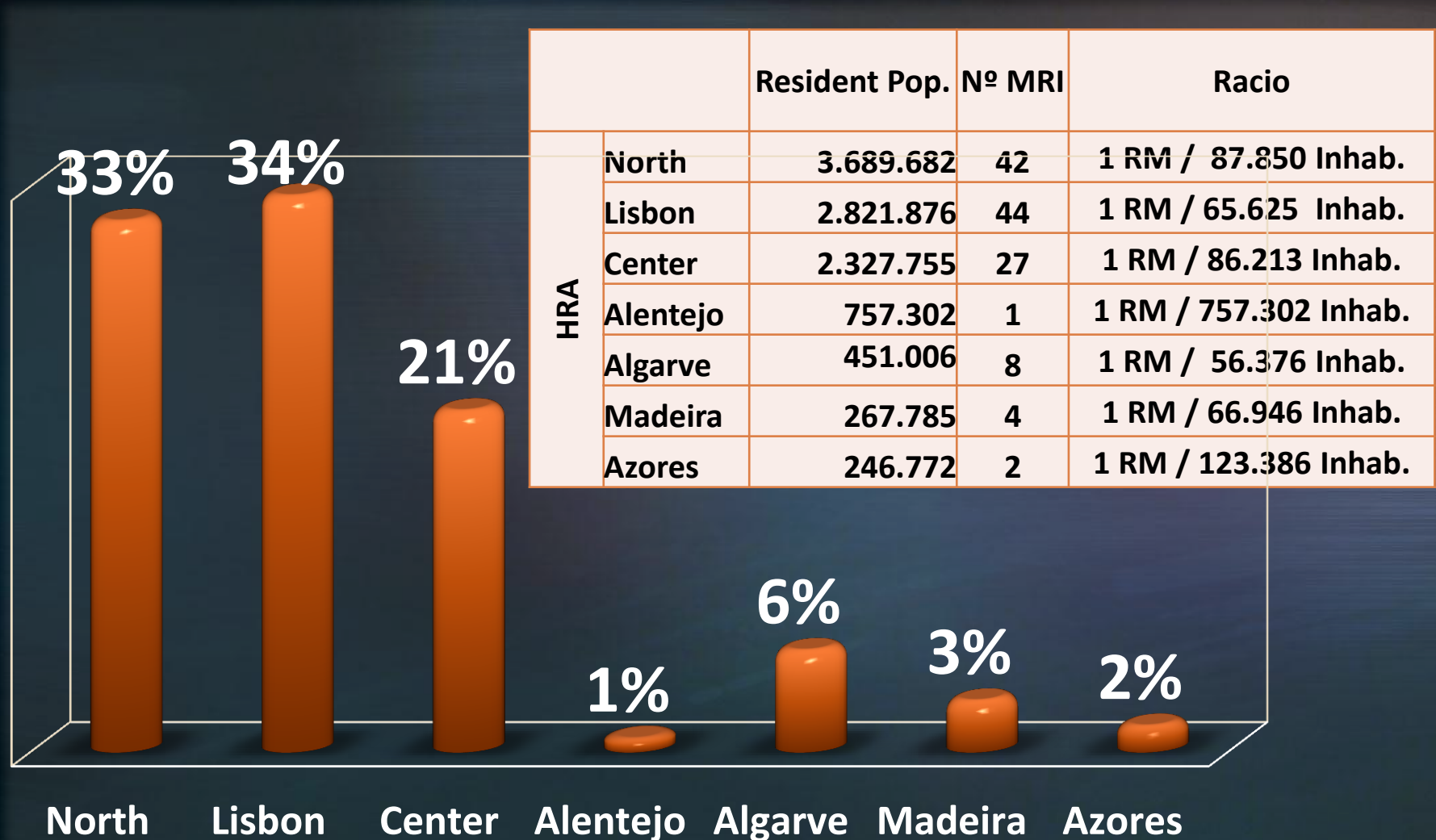
- Public Sector
- Private Sector



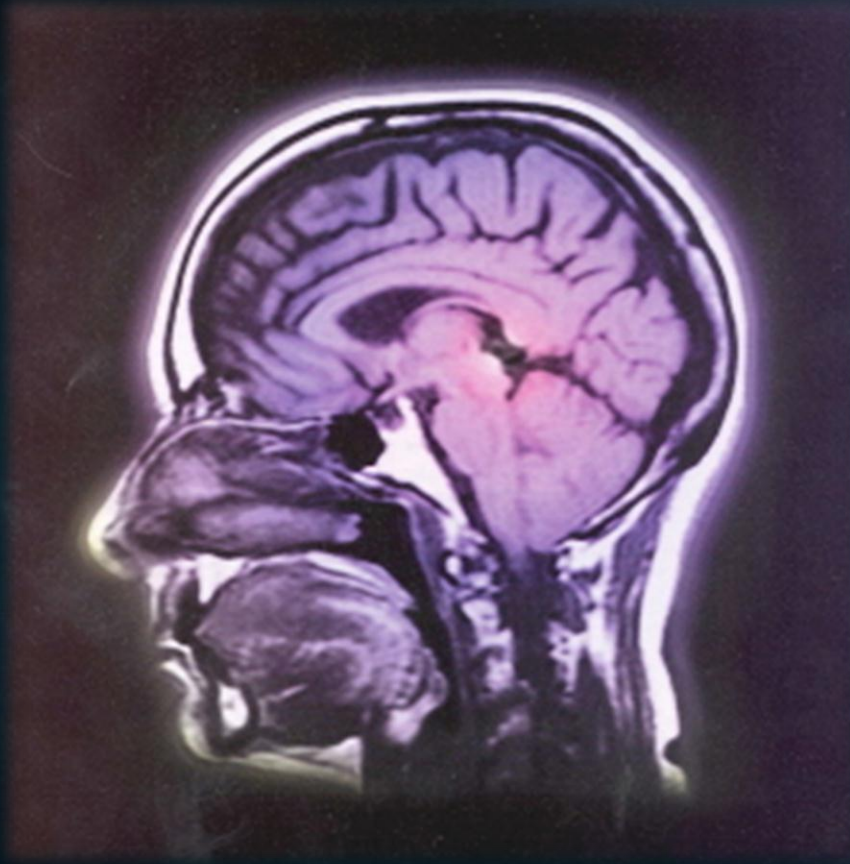
B. Geographic distribution

3. Results

Distribution of MRI Units



3. Results



- MRI is a neurodevice with high diagnosis potential
- Portuguese NHS does not fulfil the aim of national constitution
- Portugal is an ageing society

- There are not yet independent, relevant, in-depth and usable TA studies on this issues
- There are still too many questions be answered, as:
 - Will the technologies - identified as necessary for the general population - generate the expected benefits?
 - What are the health gains for the population, with the implementation of the technology?
 - Do social and ethical issues have been taken into account, when technological resources are being allocated?
- Portugal does not have (yet) institutionalized TA

GrEAT-Avaliação de Tecnologia (Portugal)

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O QUE É O GREAT

GrEAT é o acrónimo de Grupo de Estudo sobre Avaliação de seu campo de actuação localizado em Portugal.

Este Grupo de Estudos nasceu da articulação de actividades de colaboração do Programa Doutoral em Avaliação de Tecnologia iniciado em 2009 na Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa e do ITAS, Instituto de Avaliação de Tecnologia e Análise de Sistemas do Karlsruhe Institute of Technology (Alemanha). Este instituto começou a colaborar com o Programa Doutoral desde o seu início.

Pretende ser uma plataforma para a promoção da reflexão em torno do conceito de "Avaliação de Tecnologia" e agregar todos os interessados na temática.

Classificar isto: ★★★★★ 5 Votes



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Parliamentary Technology Assessment in Europe

2012 in review

3ª Escola de Inverno do Programa Doutoral em Avaliação de Tecnologia – Programa

1st Practitioners' meeting – "Selecting the theme", Setembro 2012

4S/EASST Conference "Design and Displacement – Social Studies of Science and Technology", Outubro 2012

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GrEAT - Grupo de Estudos de Avaliação de Tecnologia

Gosto 116



GrEAT - Grupo de Estudos de Avaliação de Tecnologia

Projecto TASTI no centro SPIRAL da Universidade de Liège: Technology

Recommendations

- A support network between different agencies to avoid duplication of resources and information
- In Health TA different disciplinary knowledge and methods should be taken into consideration
- HTA can create bridges between policy and research field



Questions?

Thank you....



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