

R&D IN SPANISH RESEARCH HOSPITALS: CHALLENGES IN ADMINISTRATIVE DATA COLLECTION

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The role of FECYT within the National R&D System

- ☐ **FECYT is a public foundation under the Ministry for Science and Innovation.**
- ☐ **FECYT is the Ministry's tool for monitoring, incorporating, and analysing STI indicators.**
- ☐ **FECYT uses national and international public data.**
- ☐ **Data come either from statistics (R&D statistics, and Innovation Survey) or from administrative sources (GBAORD, patent data, scientific production).**
- ☐ **FECYT produces its own administrative data : SISE-SICTI.**
- ☐ **SISE-SICTI has been regulated in the forthcoming new Science Law.**
- ☐ **SISE stands for *Comprehensive System for Monitoring and Evaluating public R&D&I programs.***
- ☐ **SICTI stands for *STI Information System.***

FECYT produces R&D&I administrative data

FECYT as an administrative data producer

- ☐ **The Spanish National Program for R&D&I is the public tool for allocating R&D&I funds at the National level.**
- ☐ **R&D&I funding process follows public calls for open competition.**
- ☐ **Due to the devolution process, each of the 17 Spain Autonomous Regions has a Regional Plan for R&D&I.**
- ☐ **Unlike many developed countries, Spain does not have a single funding agency but a wide variety of funding units, mostly spread within the Ministry for Science and Innovation, and the Ministry for Industry.**
- ☐ **National level: 26 R&D&I funding units.**
- ☐ **Regional level: 141 R&D&I funding units.**
- ☐ **Therefore, tracking public funding for R&D&I is a highly cost task.**

What does SISE-SICTI contain?

FECYT as an administrative data producer

SISE-SICTI Database variables

PROJECS	RECIPIENT	RESEARCHER
Year of the call	Sector (Frascati)	Gender
Administrative level (National or Regional)	Entity	Role
Ministry launching the call	Region	
State Office launching the call	Country	
Deputy sub department launching the call	NACE Activity	
National Program		
Instrumental lines (6)		
Action program (13)		
Subprogram		
Name of the call		
Status (approved/denied)		
Region		
Total amount applied		
Grant amount applied		
Credits amount applied		
Total amount awarded		
Grant amount awarded		
Credits amount awarded		
UNESCO code		
NABS code		

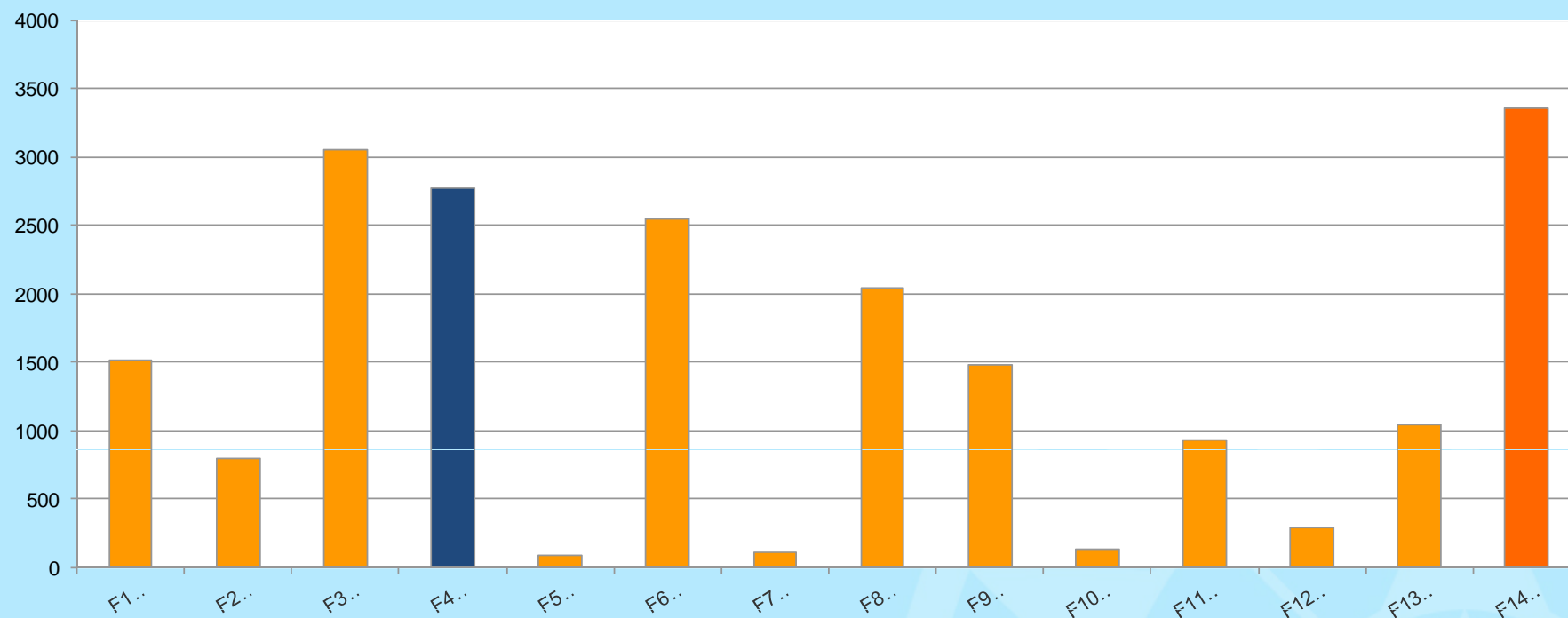
FECYT as an administrative data producer

- ☐ **Data come from the R&D&I funds managing units**
- ☐ **12 people working full-time on SISE:**
 - 6 expert technicians
 - 3 documentalists
 - 3 computer programmers
- ☐ **14 stages in the data base building:**
 - 1: Data request**
 - 2: Data collection**
 - 3: Data validation**
 - 4: Entities' check (25.353)**
 - 5: Double check**
 - 6: Hand-made databases software standardization**
 - 7: Double check**
 - 8: Hand-made content standardization**
 - 9: Technological content standardization**
 - 10: Double check**
 - 11: Pre – Integration**
 - 12: Integration**
 - 13: SISE software check**
 - 14: Data exploitation**

Entities' classification as the key challenge

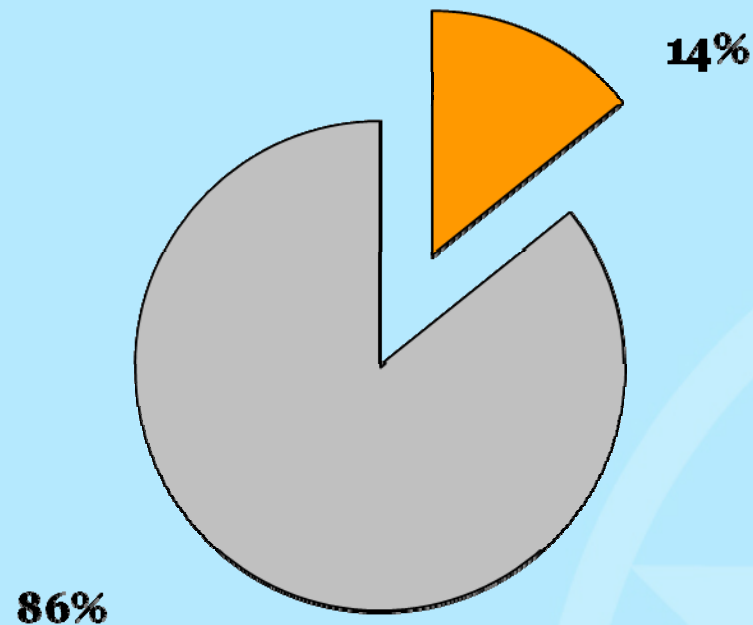
FECYT as an administrative data producer

Workload per stage (hours/person per year)



FECYT as an administrative data producer

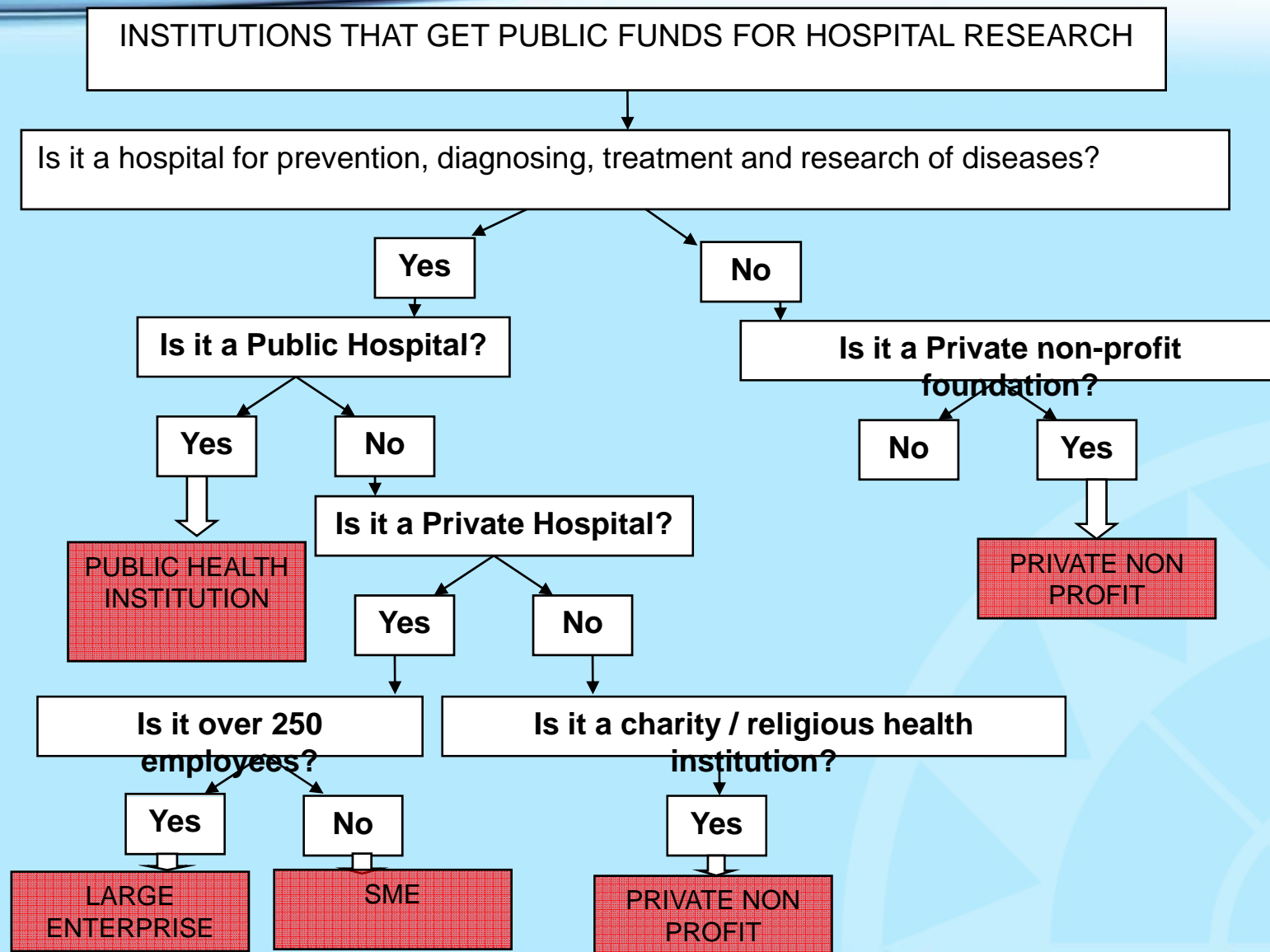
Time consumed for entities' check and double-check accounts for 14% of the overall process.



Diversity of entities, and classification within Frascati

Business Enterprises	Public Administration	Non-profit	Higher Education
Large enterprises	Public Administration Bodies	Private non-profit foundations	Public universities
SMEs	Public Research Bodies (OPIs)		Private universities
Associated Enterprises	Public Research centres (no OPIs)		
Public enterprises	Public Health Institutions		
Non-profit enterprises association			
Technology and Innovation centres			
Science and Technology Parks			

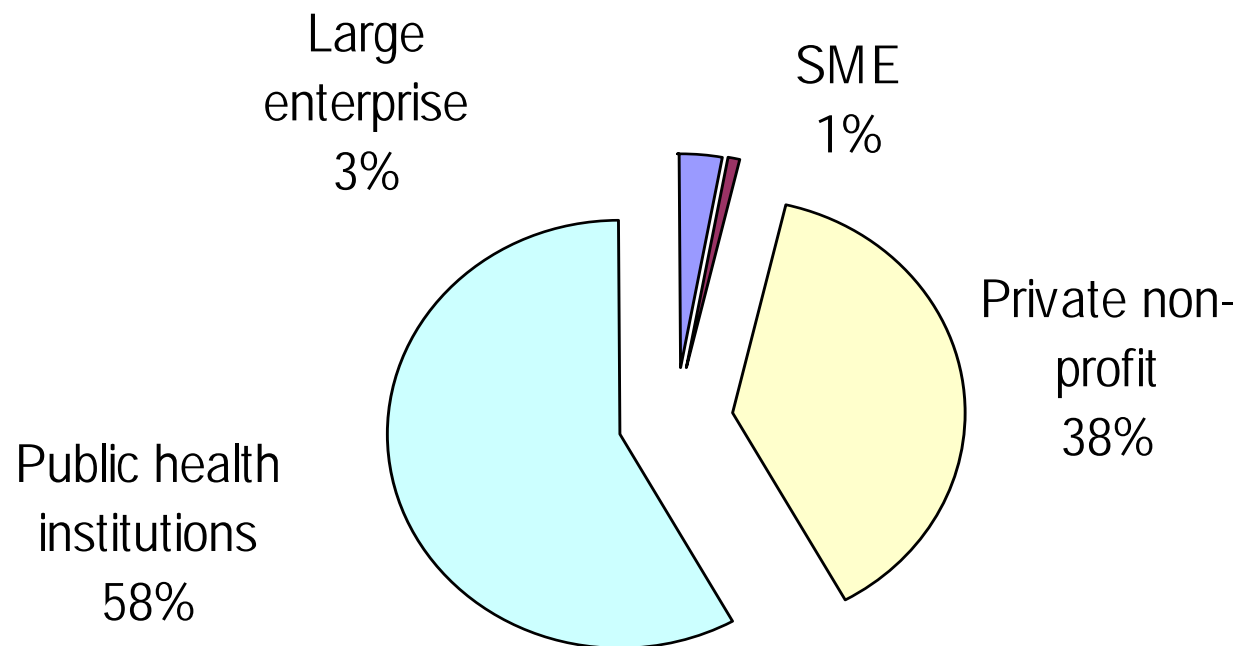
Decission tree for R&D Research Hospitals in SISE-SICTI 2006-2008



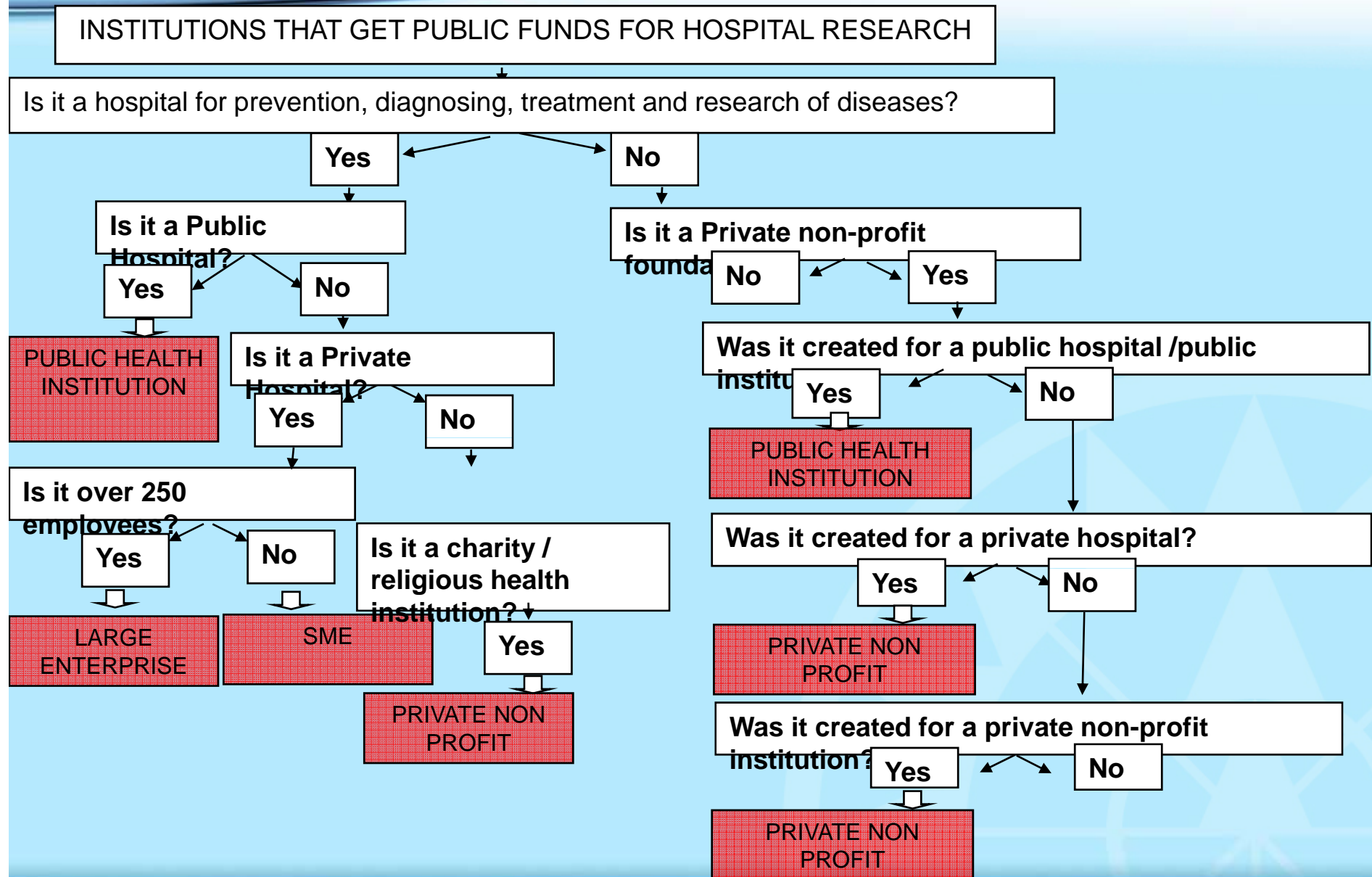
Main problems for Research Hospitals classification

- ❑ **Total Health research hospitals in 2008: 379**
- ❑ **Non-profit foundations is a large organisational category for managing R&D&I activities in Research Hospitals.**
- ❑ **BUT most non-profit foundations belong to the public sector.**

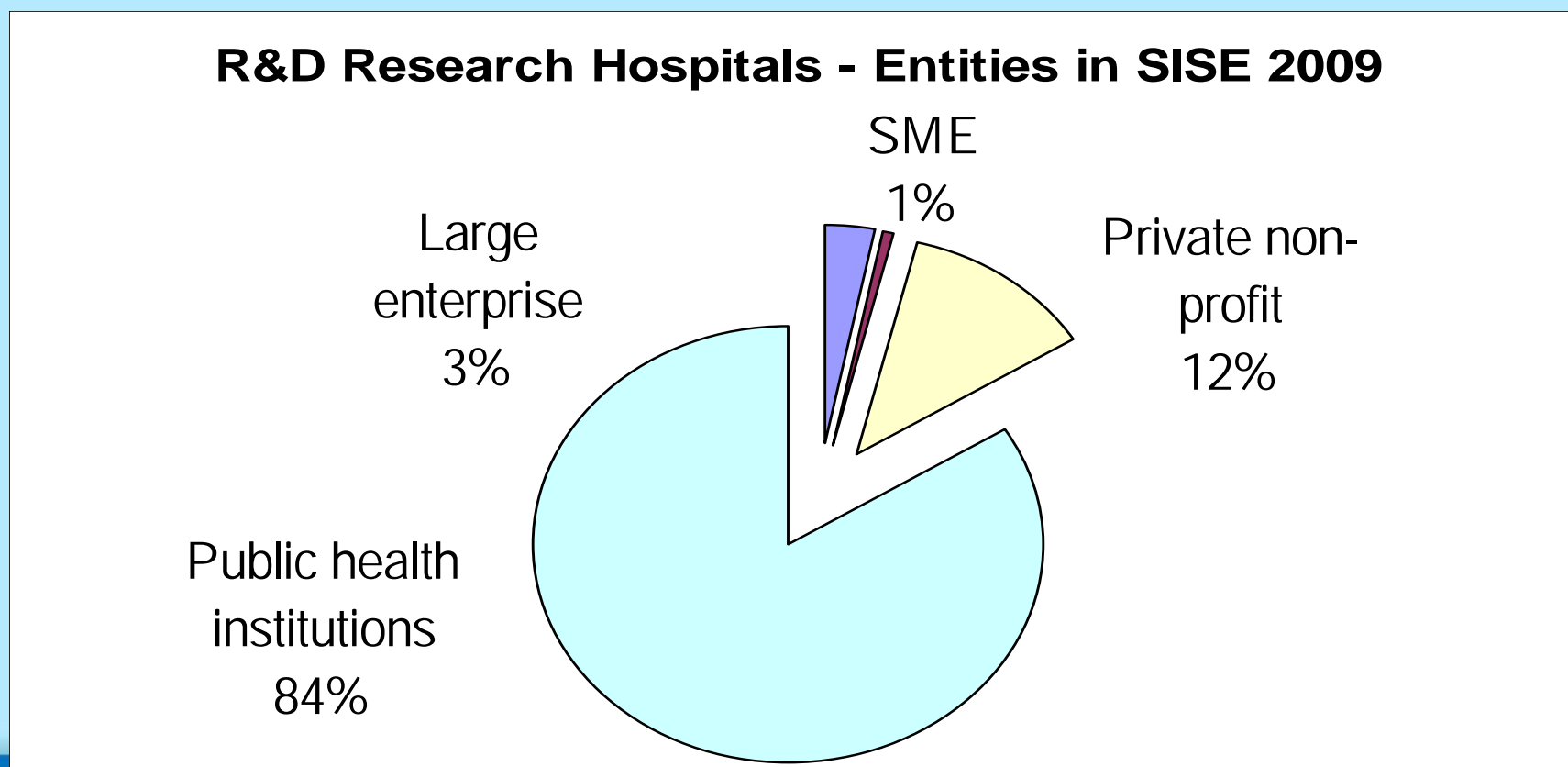
R&D Research Hospitals - Entities in SISE 2008



Decision tree for R&D Research Hospitals in SISE-SICTI 2009-2010



- ❑ **Legal status is not a valid criterion.**
- ❑ **National public health sector is increasingly using private non-profit foundation as the organisational form to manage their R&D funds.**
- ❑ **NACE code is used for identification of the Research Hospital sector across Frascati categories.**



Thank you for your attention

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