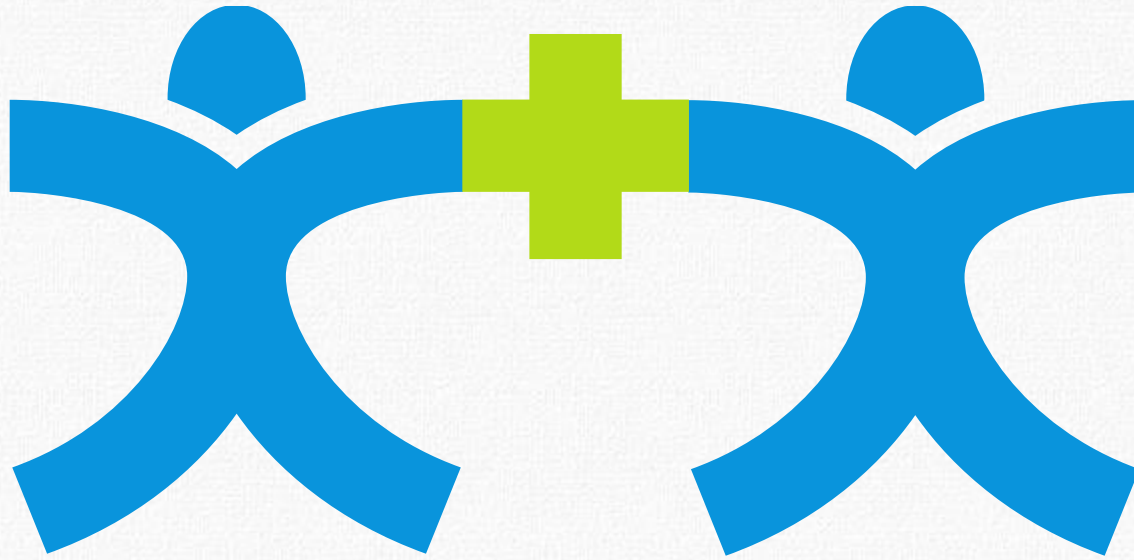




Joint Action Health Workforce  
Planning and Forecasting

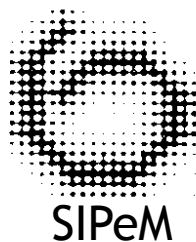


Joint Action Health Workforce  
Planning and Forecasting

# Students orientation, selection and support to the development of professional identity: experience and ongoing research in Italy

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the Health Programme  
of the European Union

## Students orientation, selection and support to the development of professional identity: experience and ongoing research in Italy

### An overview

1. Some background information
2. A reference framework
3. Orientation
4. Selection
5. Monitoring the progress of medical students
6. Conclusions

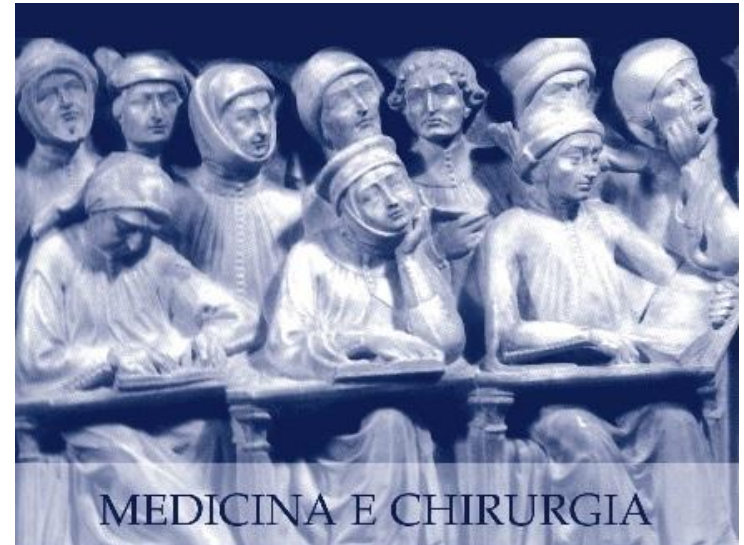
**I'll just consider medical students ...**

# BACKGROUND: ACTORS AND PROCESSES

## The Conference of Directors of Medical Curricula

It is a self-organized body aimed to

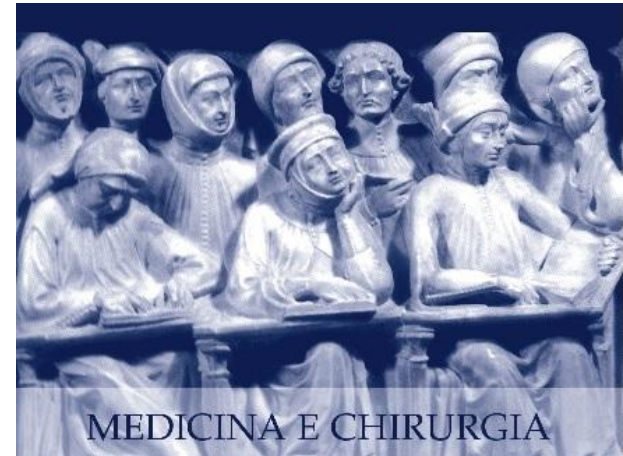
- Promote homogeneity among the **49 Italian curricula**
- Discuss and agree **possible solutions** to the challenges raised by new regulations
- Enhance the **quality** of teaching/learning



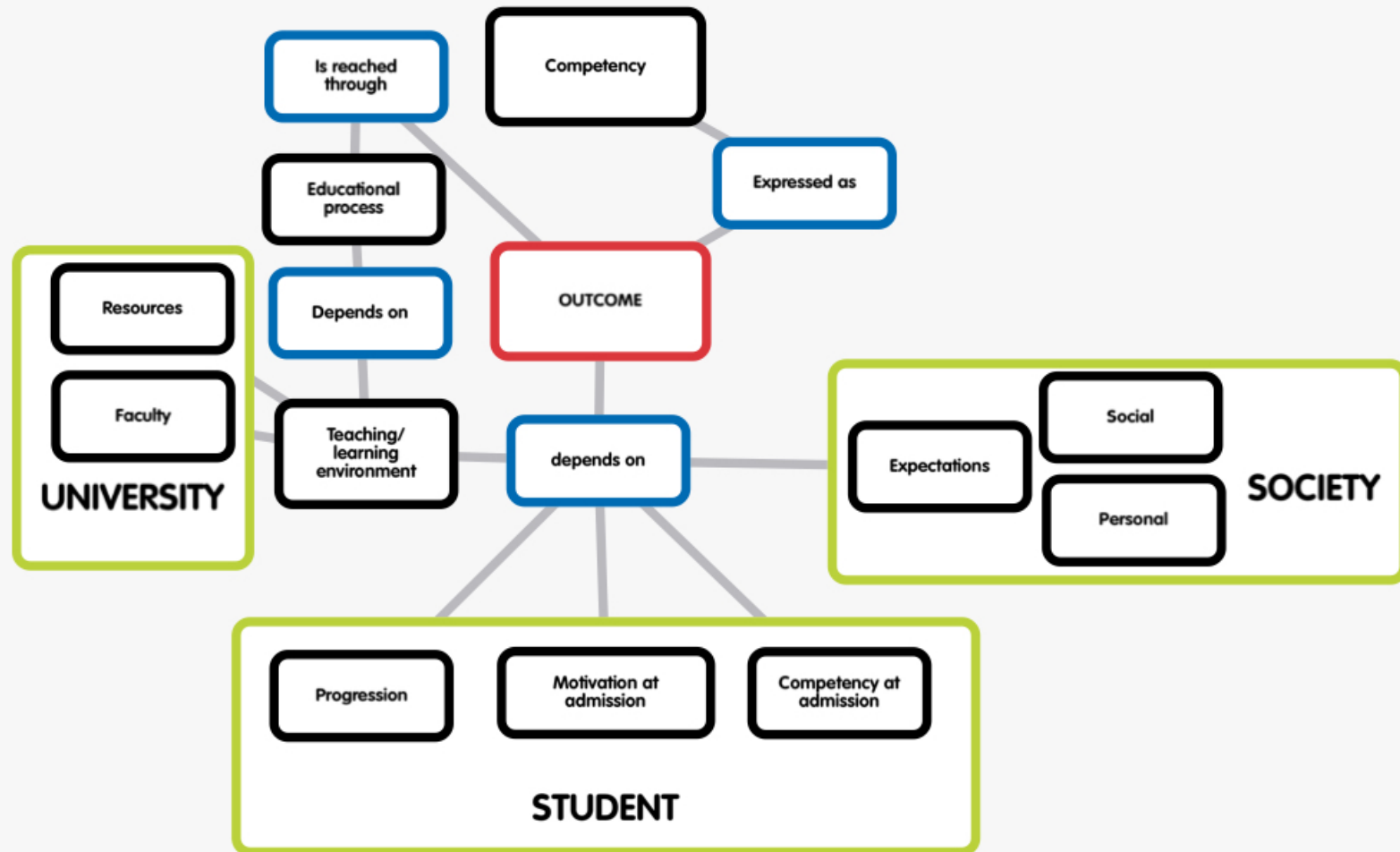
# BACKGROUND: ACTORS AND PROCESSES

## The Conference of Directors of Medical Curricula

- Four meetings/year
- Faculty development
- Working groups (monitoring and proposals)
- On site visits
- Progress test



# A REFERENCE FRAMEWORK



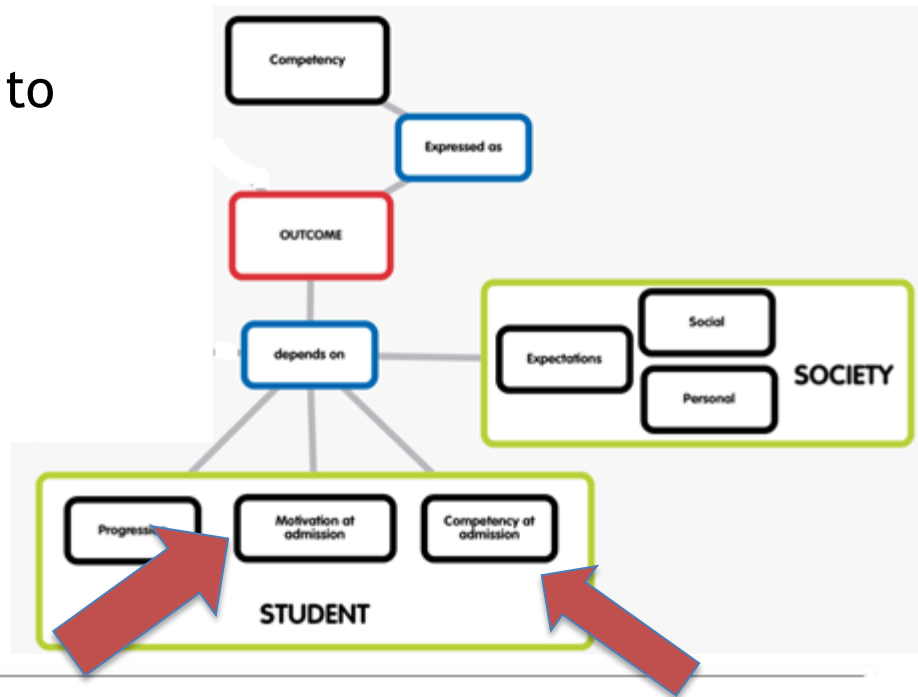
# ORIENTATION

Two types of activities:

1. **Pre-admission courses:** to increase knowledge and skill to face the national admission test

2. **Vocational orientation:** addressed to

- Enhance students' **awareness** on own attitudes, preferences and expectation
- Enhance students' knowledge on **social expectation** and epidemiological needs in Italy



# ORIENTATION

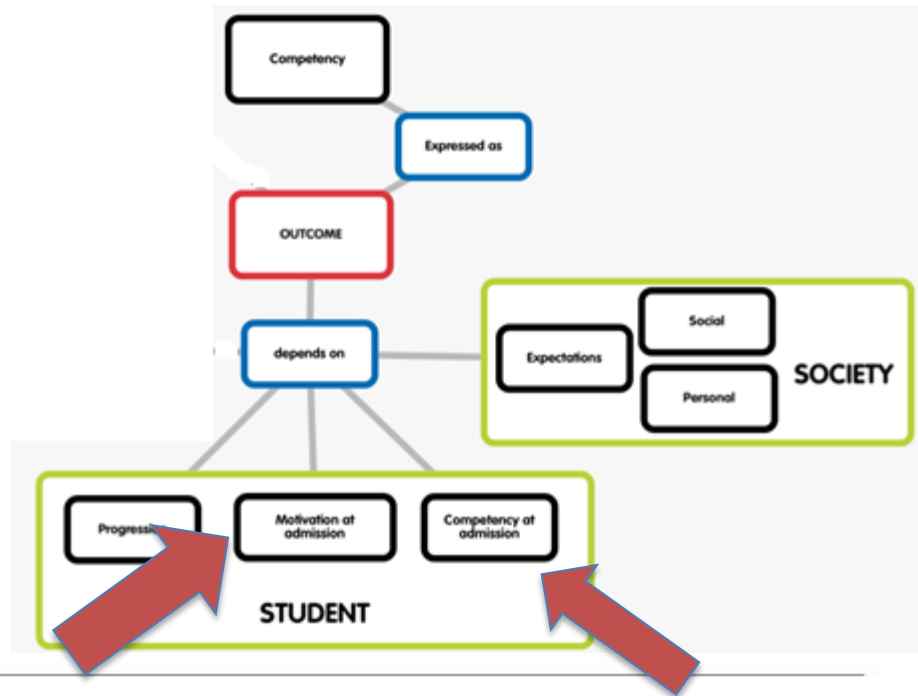
Two types of activities:

## 1. Pre-admission courses

- Summer classes at the Universities
- On-line courses through the web

## 2. Vocational orientation

- Meetings at high schools
- Intensive weeks
- Stages at healthcare facilities



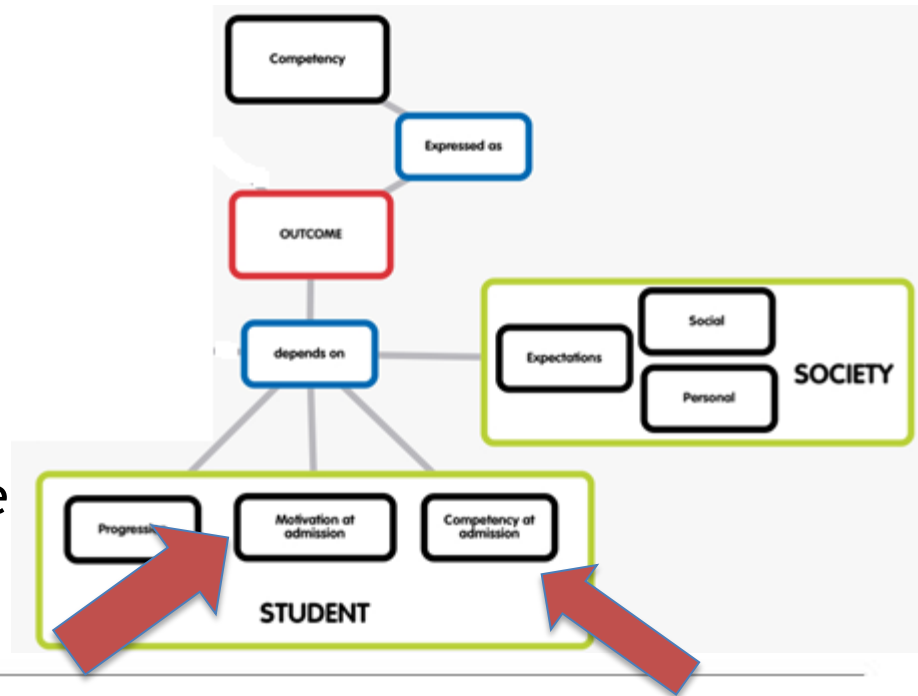
# SELECTION

## CANONICAL TRAITS \*

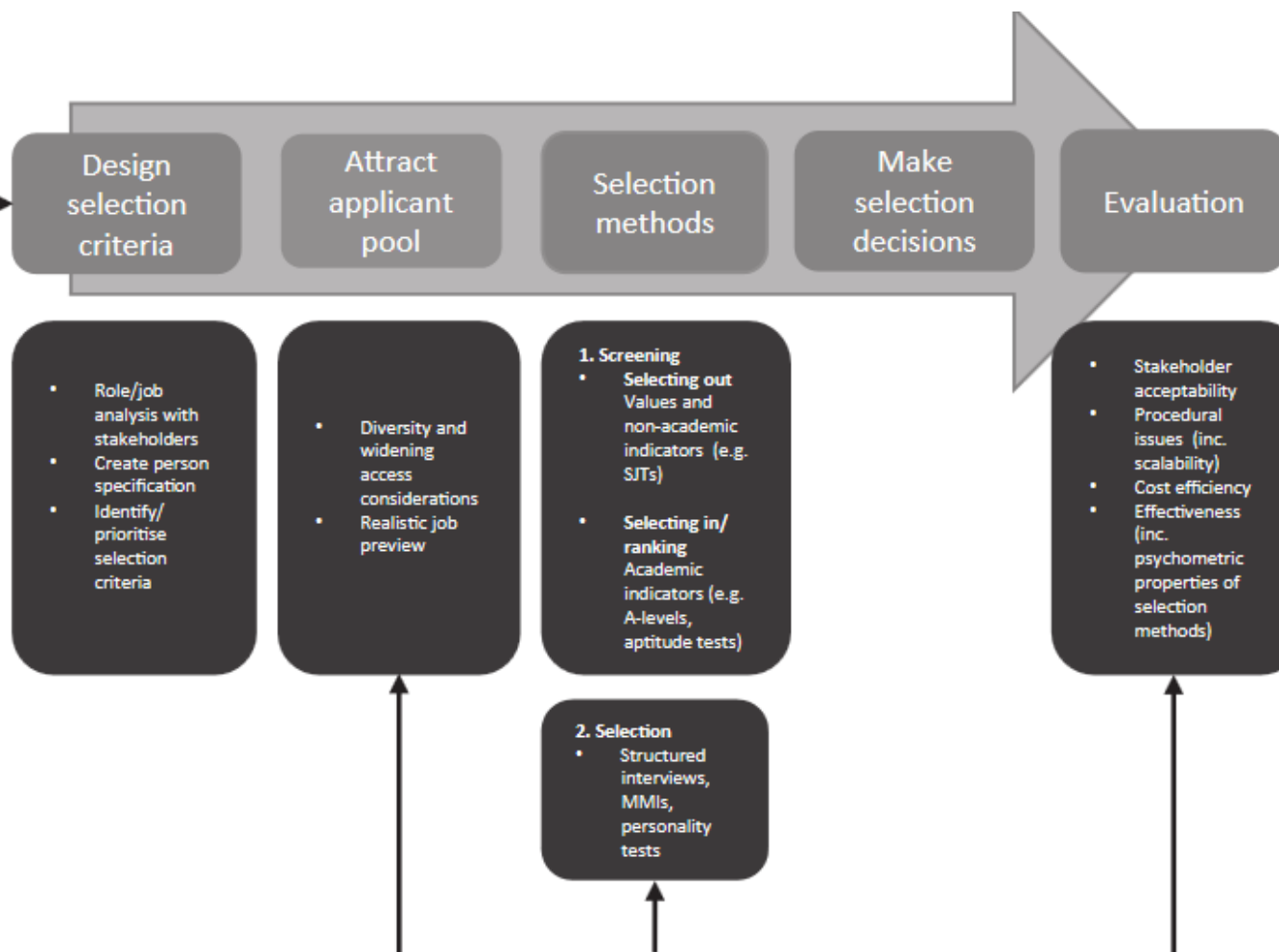
- Intellectual ability
- Learning style and motivation
- Communicative ability
- Personality

## SURROGATE FACTORS

- Correlated with canonical traits
- Easier to be measured
  - E.g.: high school diploma score



# SELECTION



**1. Selection as a process and not a single shot trial**

**2. Cost/effective balance**

# SELECTION



In Italy, at present: two main problems

1. **Mono-dimensional** method of selection (MCQs on logics and basic sciences)
2. **Selecting** (...and educating) young people who are going to practice 6 + 3-5 (residency!!) = **9-11 years later**

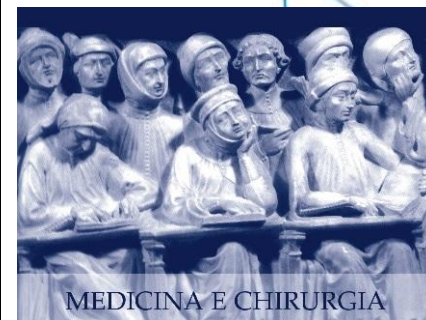
Two answers:

1. **Search** for a better and feasible selection process
2. **Develop** a process of monitoring of professional image

# SELECTION and MONITORING



1. **Search** for a better and feasible selection process
2. **Develop** a process of monitoring of professional image



**A research project on a new model of selection and monitoring**

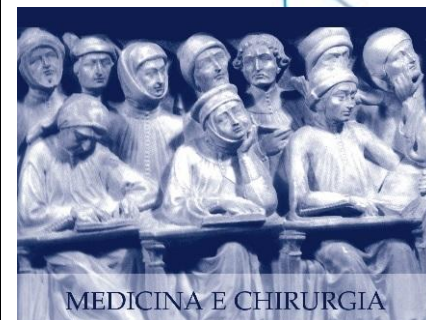
1. To define a set of indicators (knowledge, aptitude, traits) **predictive of academic success**
2. To describe the **trajectories of development** during the academic years
3. To define **risk and success indicators** during the curriculum
4. To develop a framework to define “**professional success**” as an outcome

# SELECTION and MONITORING



Longitudinal study on 6 medical curricula

- Two in the north
- Two in the centre
- Two in the south/big islands
- Some high schools of the same towns



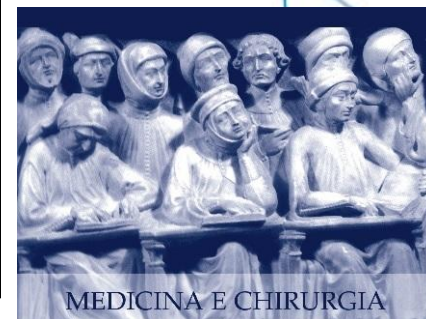
| Admission test                                                                                              | Beginning 2° y                                                    | End of 4° y.                                                     | End of 6° y.                                                                           | 2 ys. after degree                                                         |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| -Socio-economic info<br>-Aptitude test<br>-Personality test<br><br><b>882 students</b><br><b>Sept. 2014</b> | -Aptitude test<br>-Students' satisfaction<br>-Academic indicators | -Personality test<br>-Defense style test<br>-Academic indicators | -Aptitude test<br>-Personality test<br>-Students' satisfaction<br>-Academic indicators | -Retrospective satisfaction<br>-Occupational condition (Almalaurea system) |
|                                                                                                             | Interview                                                         | Interview                                                        | Outplacement interview                                                                 |                                                                            |

# MONITORING of KNOWLEDGE



**Progress test:** a 300 items MCQs test

- in all Italian medical curricula
- in the same day
- with the same questions for all years



## PROGRESS TEST - 2006 - 07 - 08 - 09 - 10 - 11 - 12 - 13 - 14

Numero degli Studenti Partecipanti/anno di corso

| Anno di Corso | 2006 | 2007 | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  |        |
|---------------|------|------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1° anno       | 879  | 2504 | 4353  | 3366  | 3683  | —     | 3095  | 3366  | 4408  | + 31 % |
| 2° anno       | 0    | 1068 | 2871  | 2972  | 3669  | 3602  | 4170  | 3508  | 4804  | + 15 % |
| 3° anno       | 0    | 516  | 2592  | 2621  | 2968  | 3929  | 4012  | 3158  | 4433  | + 10 % |
| 4° anno       | 2271 | 1927 | 1728  | 2087  | 2119  | 3032  | 3070  | 2839  | 3460  | + 13 % |
| 5° anno       | 80   | 1574 | 1664  | 1067  | 1527  | 1876  | 2420  | 2363  | 3193  | + 32 % |
| 6° anno       | 266  | 341  | 1594  | 1144  | 1312  | 1552  | 1920  | 2252  | 2657  | + 18 % |
| Totale        | 3496 | 7930 | 14802 | 13257 | 15278 | 13991 | 18687 | 17466 | 22955 |        |

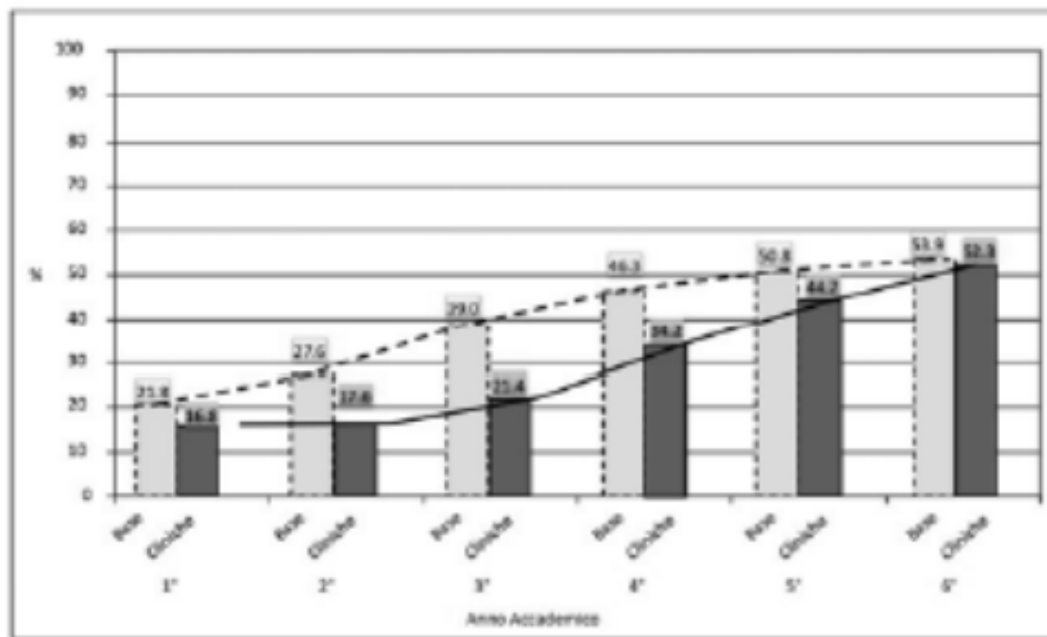
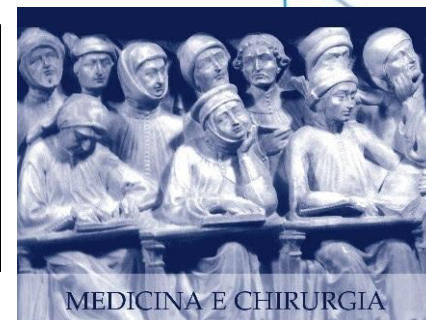
More than 50% of the Italian students tested

# MONITORING of KNOWLEDGE



A 300 items MCQs test

- 150 MCQs on basic sciences
- 150 MCQs on clinical sciences

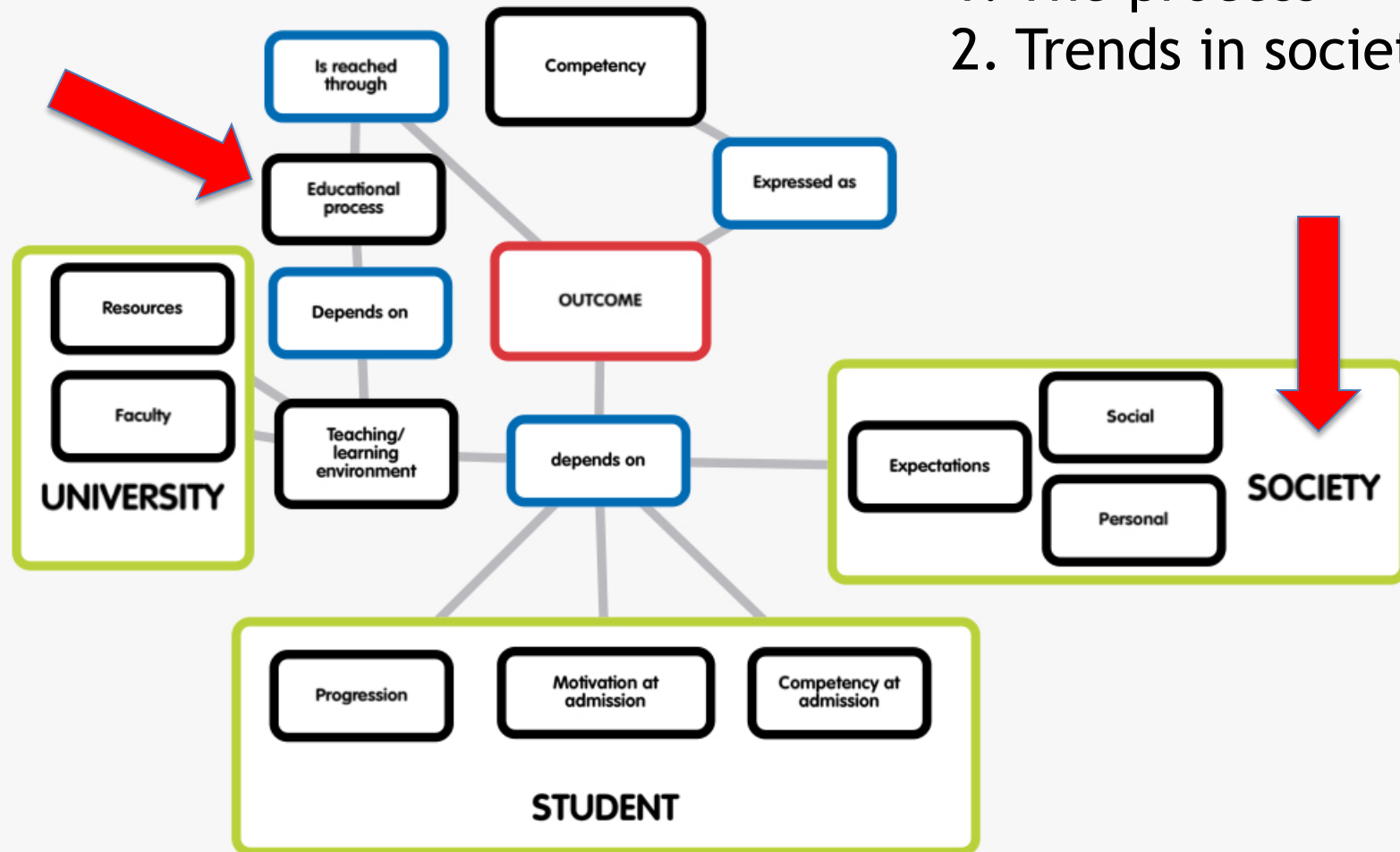


- Dotted line: basic sciences
- Continuous line: clinical sciences

Two different profiles of development  
→ The process of personal development is NOT linear

# MONITORING

1. The process
2. Trends in society

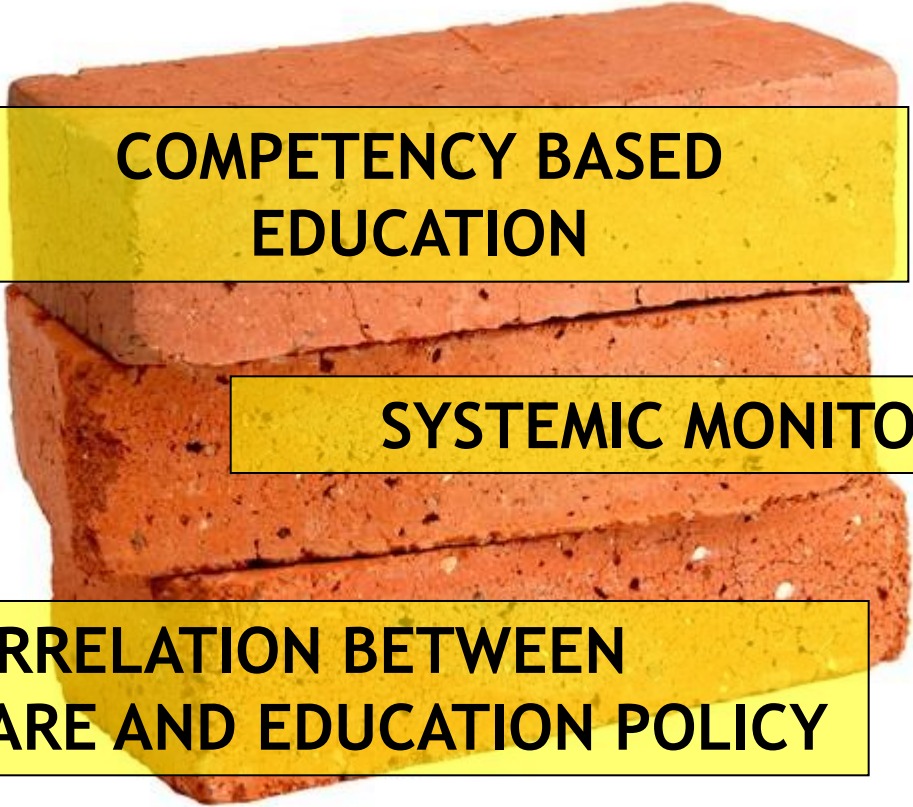


# CONCLUSIONS -1

Education of health professionals for the future  
is a challenge which demands

1. To envision the trends of healthcare needs,  
adopting a **systemic approach** to model
  - a. health and healthcare determinants
  - b. educational determinants
2. To select candidates with the best possible  
**likelihood** to become **good doctors**
3. To monitor the process of development of  
**competency**

## **CONCLUSIONS -2**



**COMPETENCY BASED  
EDUCATION**

**SYSTEMIC MONITORING**

**CORRELATION BETWEEN  
HEALTHCARE AND EDUCATION POLICY**