

OUF TI - 1

IAC-11.E1.2.8:
Educational assessment of four years of
CubeSat activities at the University of
Liège, Belgium.

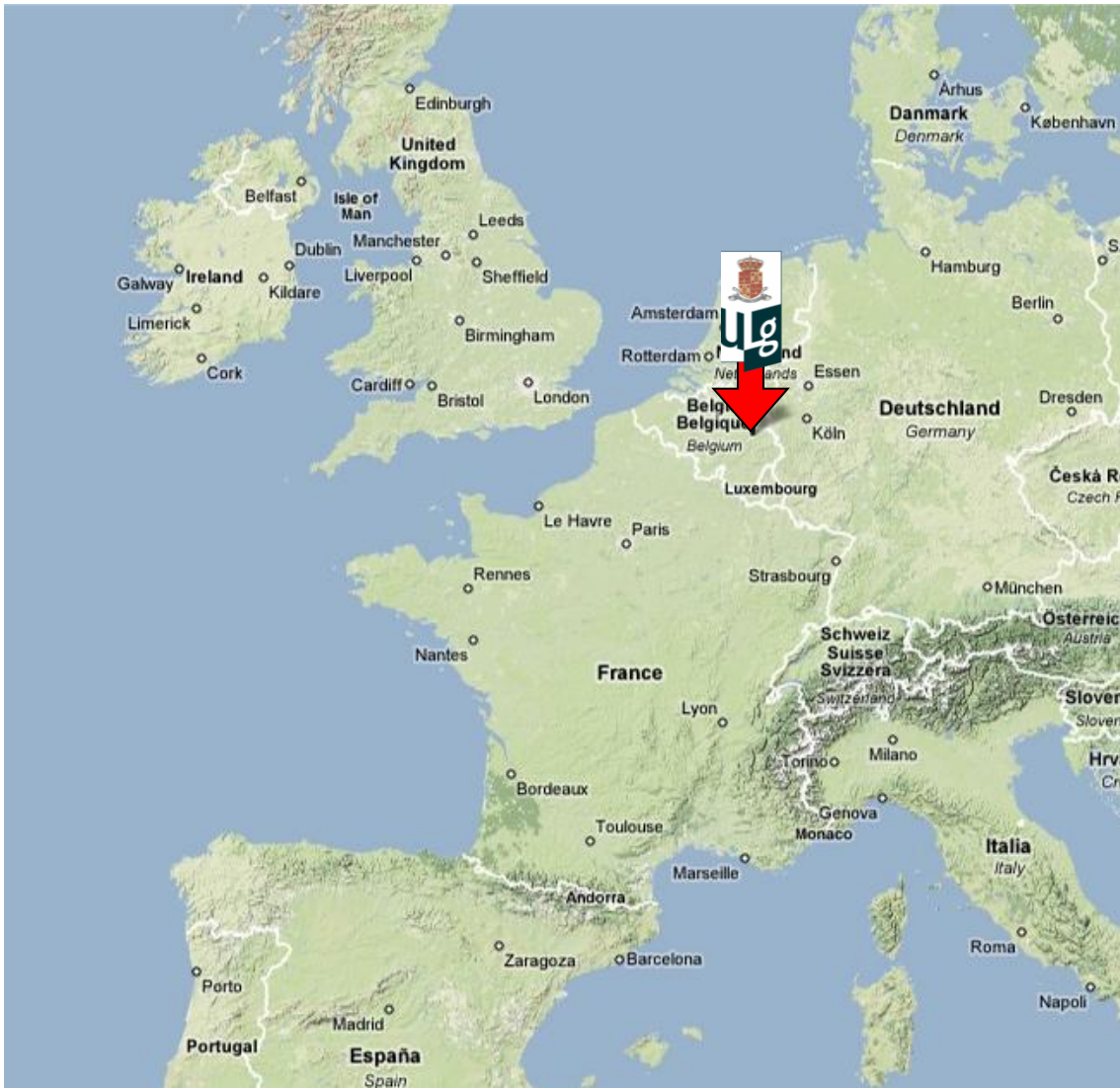


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University of Liège, Belgium**

4 October 2011

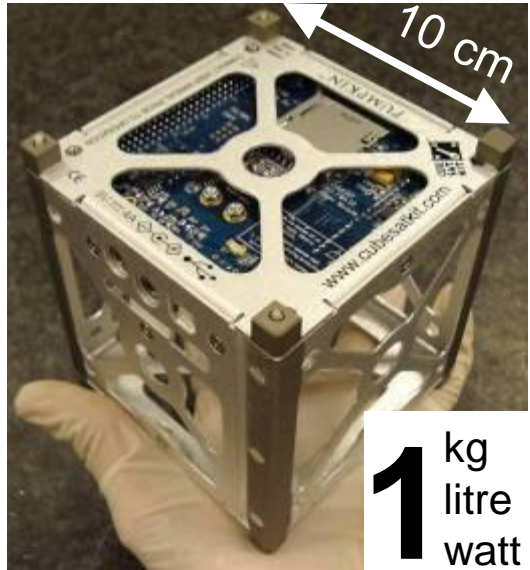
IAC 2011 – Cape Town, South Africa

Liège ?



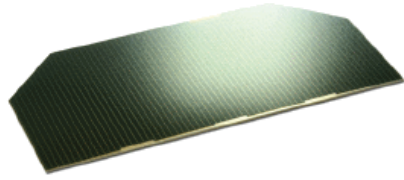
1. The OUFTI-1 project
2. Development of soft skills in 5 fields
3. Survey
 1. Content and panel
 2. General trends
 3. Use in professional life
 4. Soft skills used
 5. Open questions
4. Conclusion

1. The OUFTI-1 project

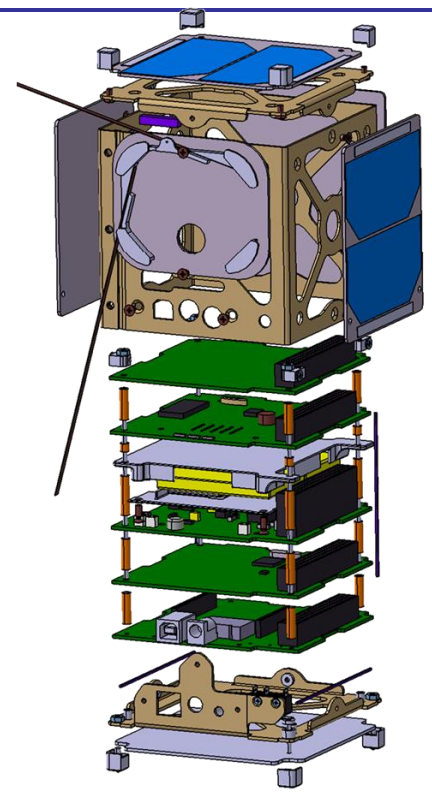


1 kg
litre
watt

CubeSat standard



Three payloads



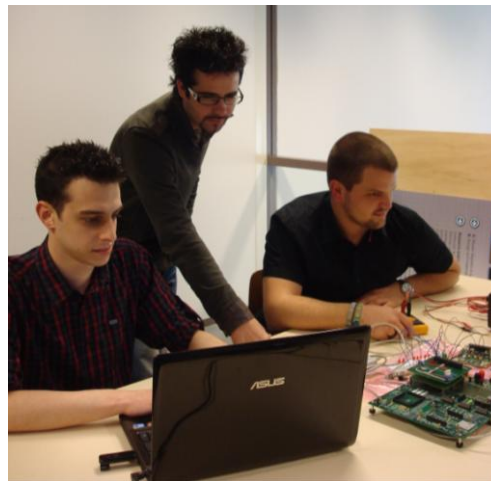
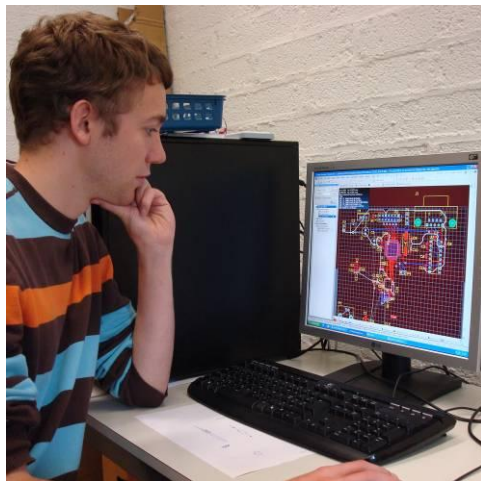
Subsystems developed by students



2 universities + 3 engineering schools

2. Development of soft skills in 5 fields

- To establish **synergies** between theory and practice
- To adopt an **applied scientific approach**
- To master written and oral scientific **communication**
- To manage a **collaborative work**
- To manage a **substantial** work that should lead into a **concrete result**



3.1. Survey – content and panel

Closed questions:

- 22 soft skills in 5 fields
- Evaluation of:
 - use in OUFTI-1
 - development in OUFTI-1
 - use in professional life

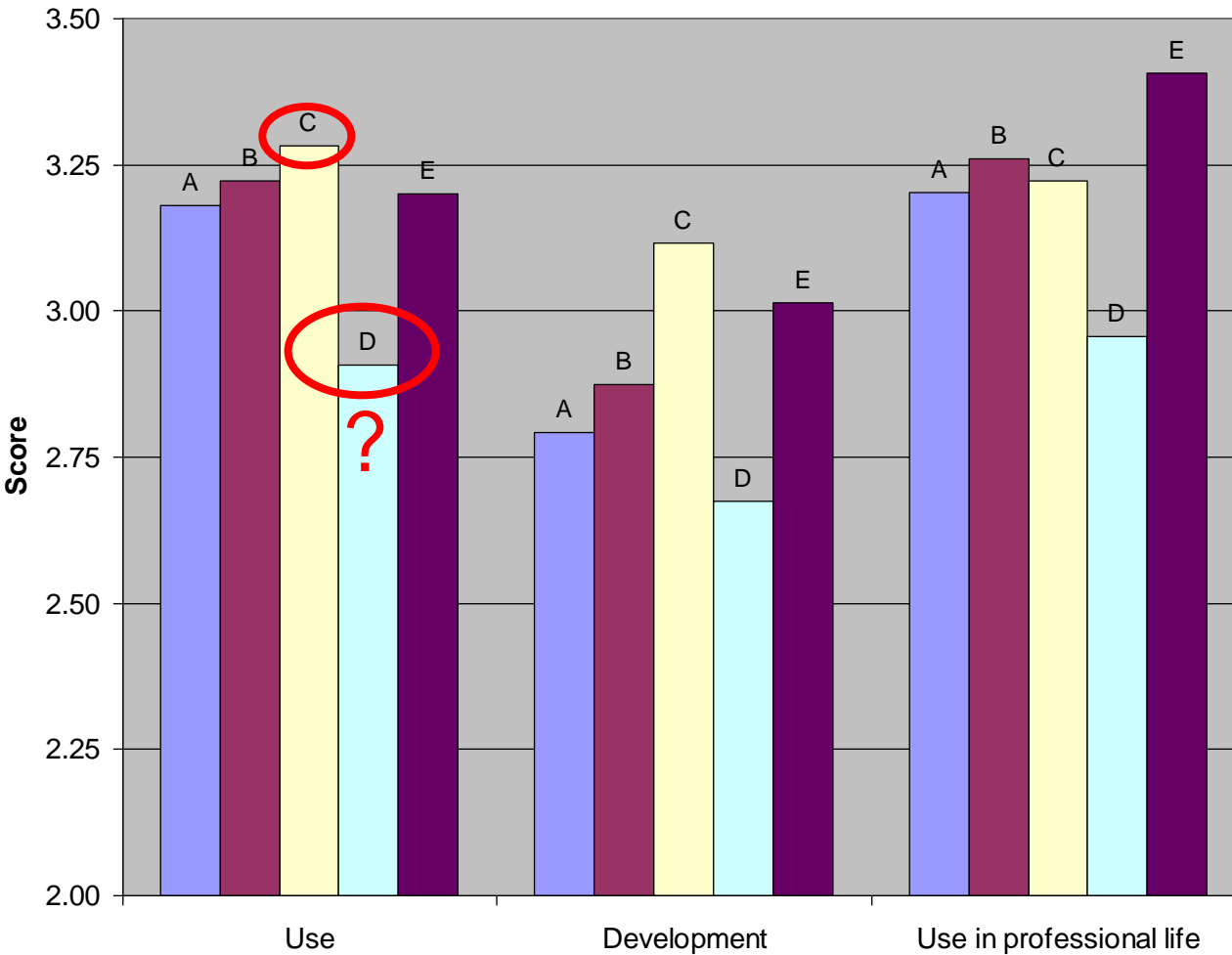
Open questions:

- Most developed and most used-in-profesional-life skills
- Professional life & OUFTI-1

→ Panel and participation:

Academic year	Number of students	Number of answers	Participation rate
2007-2008	2	2	100%
2008-2009	13	8	61.5%
2009-2010	15	8	53.3%
2010-2011	10	6	60%
Total	40	24	60%

3.2. Survey – general trends



A: to establish synergies between theory and practice

B: to adopt an applied scientific approach

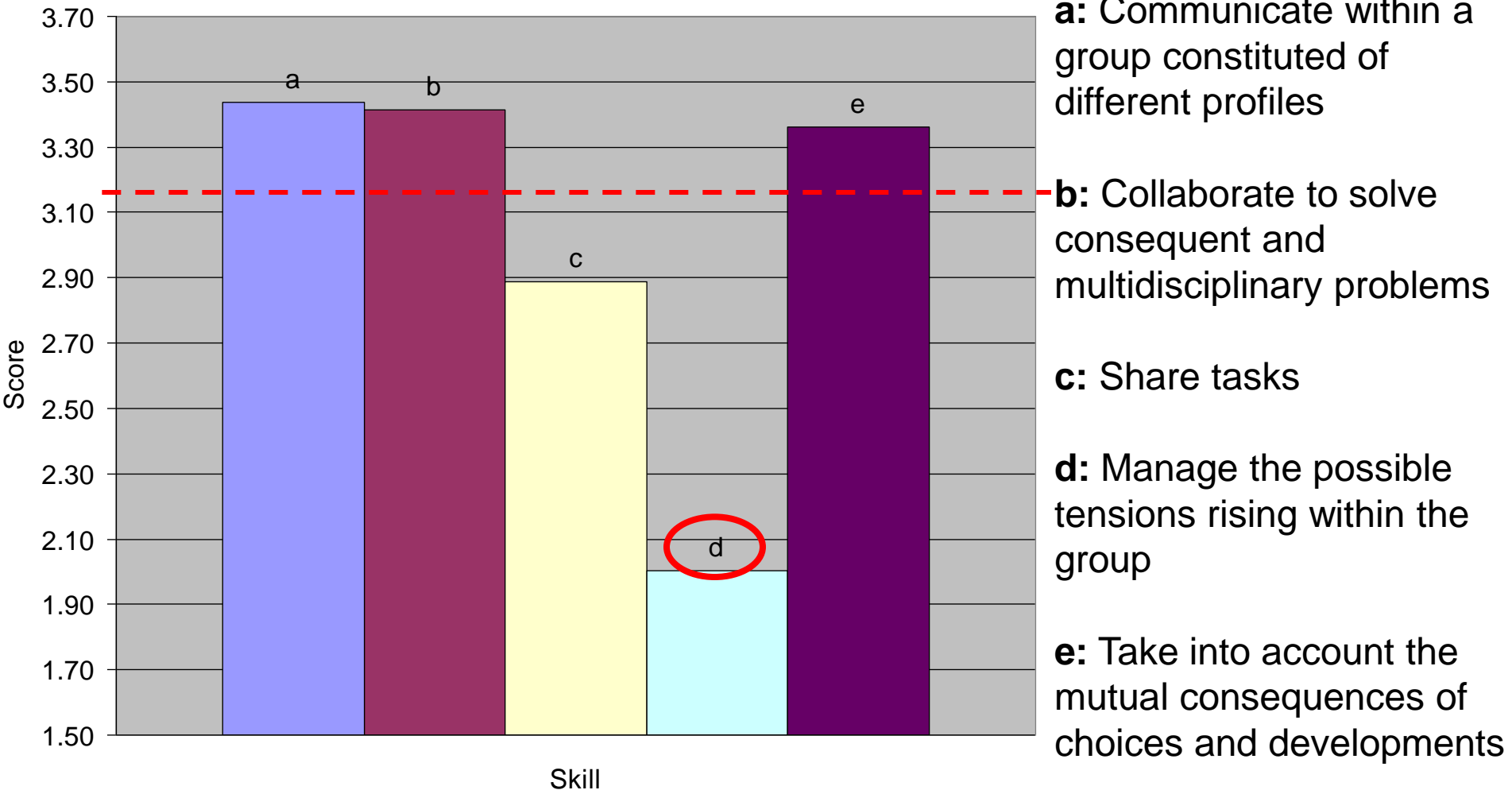
C: to master written and oral scientific communication

D: to manage a collaborative work

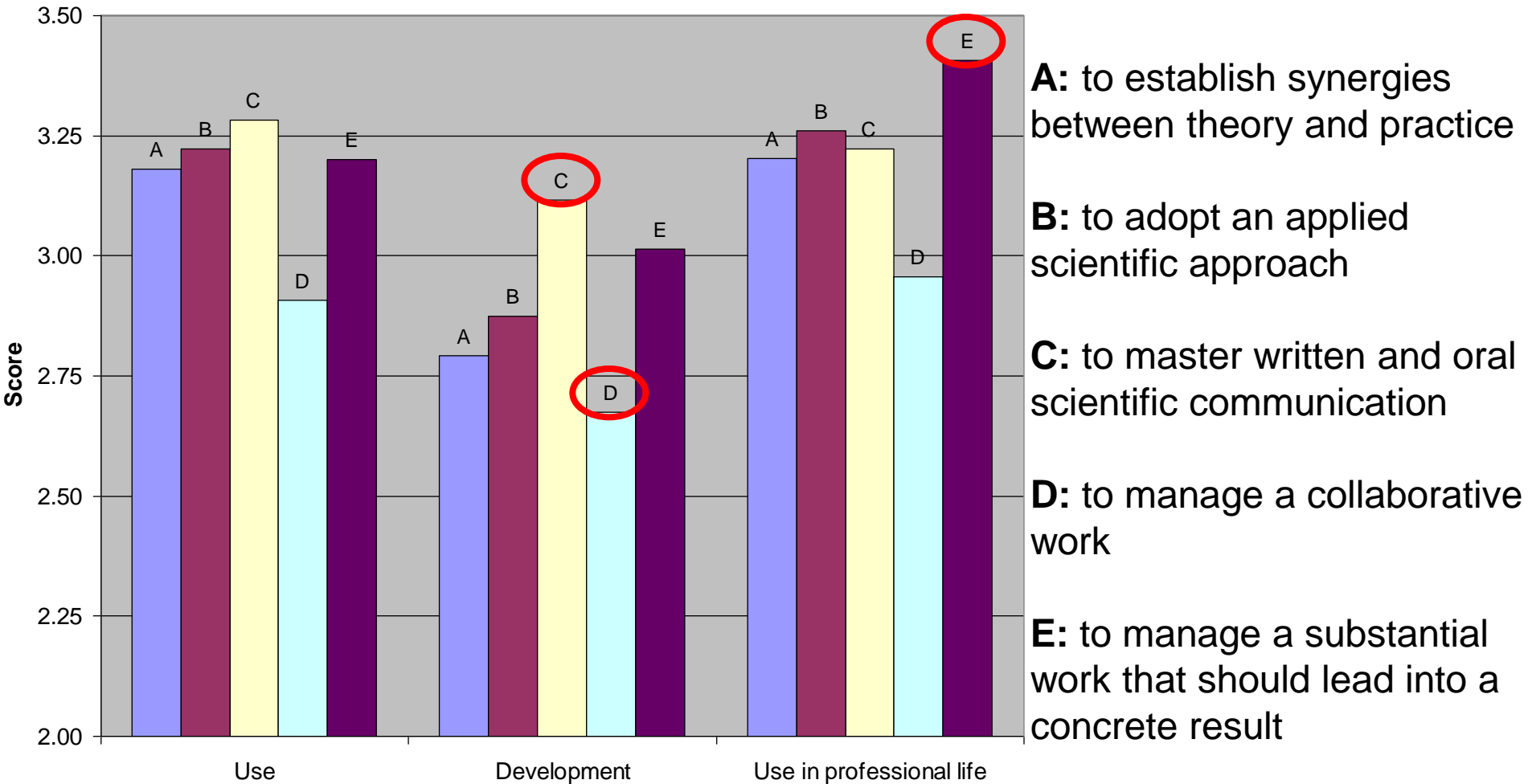
E: to manage a substantial work that should lead into a concrete result

3.2. Survey – general trends

→ Detailed scores for the use of collaborative skills

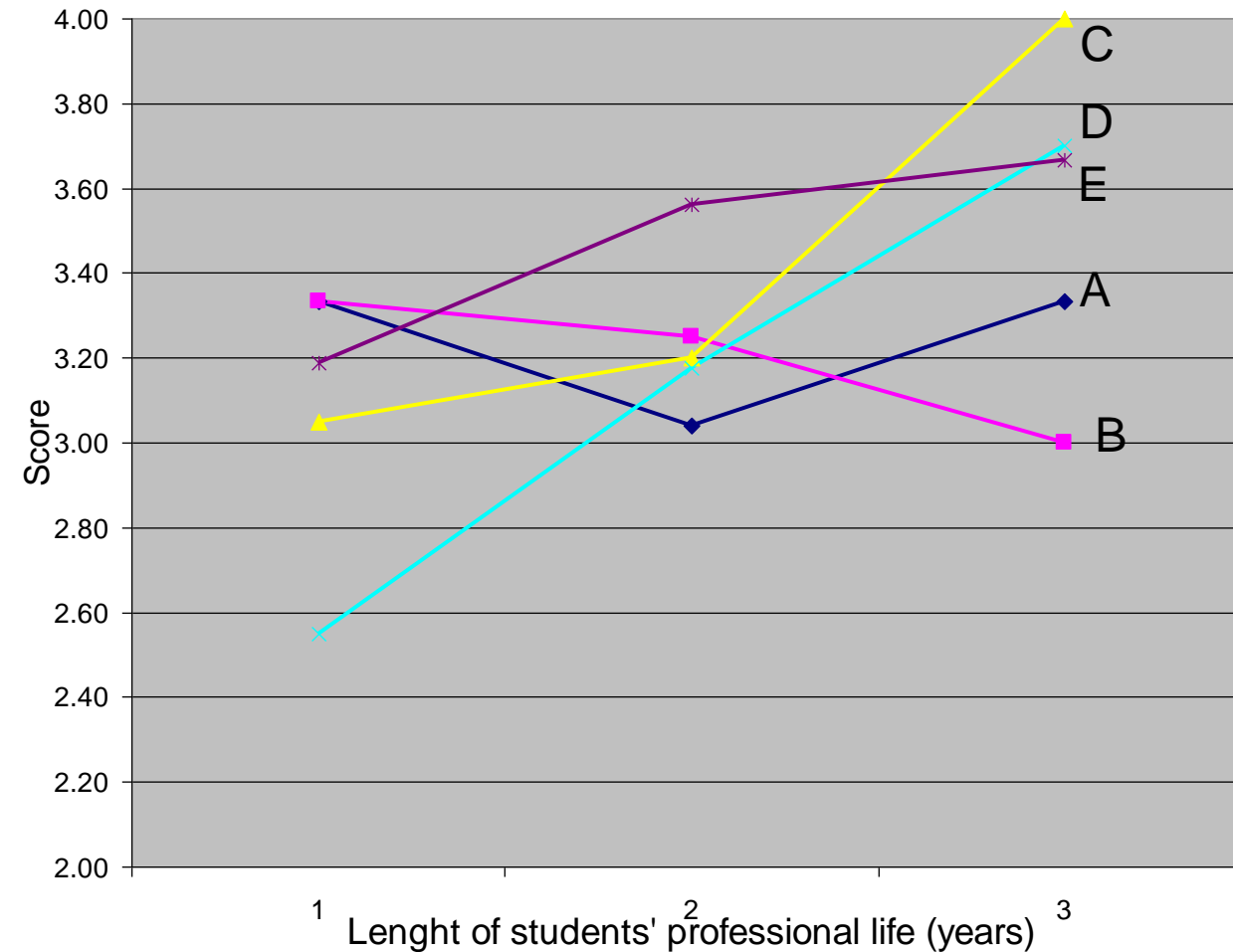


3.2. Survey – general trends



3.3. Survey – use in professional life

→ evolves according to seniority



A: to establish synergies between theory and practice

B: to adopt an applied scientific approach

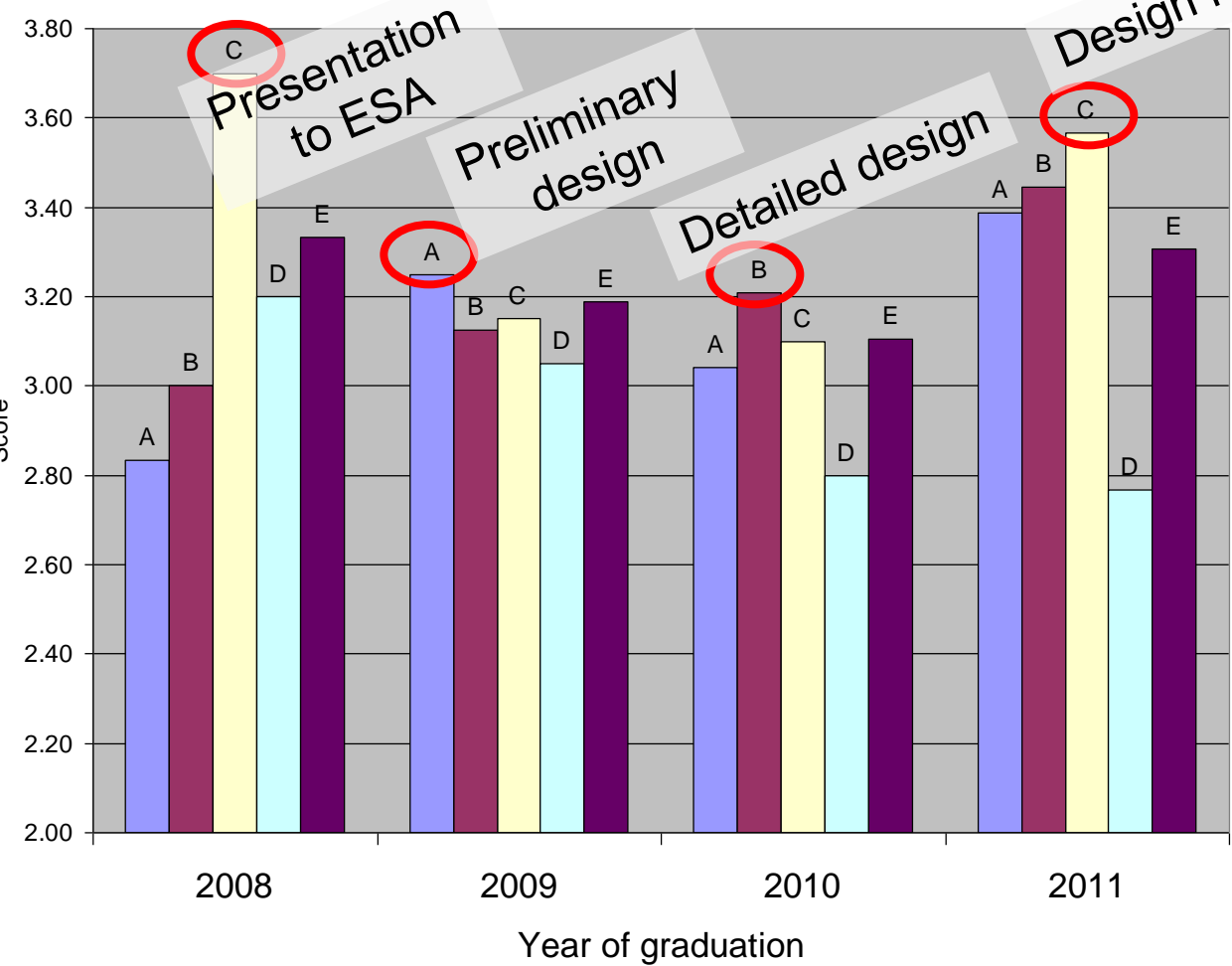
C: to master written and oral scientific communication

D: to manage a collaborative work

E: to manage a substantial work that should lead into a concrete result

3.4. Survey – soft skills used

→ differ according to the team



A: to establish synergies between theory and practice

B: to adopt an applied scientific approach

C: to master written and oral scientific communication

D: to manage a collaborative work

E: to manage a substantial work that should lead into a concrete result

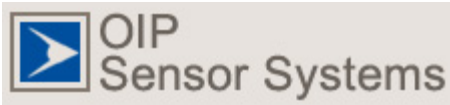
3.5. Survey – open questions

- Most developed?
 - Collaborative skills
 - Communication
- Most important in professional life?
 - Communication
 - Collaborative skills
- Mentioned in job interview (71%)
- Prepare to professional life (79%)



3.5. Survey – open questions

62.5% (out of the 24 answers) work in aerospace sector:



4. Conclusion

- Educational project
- Soft skills are developed...
...and used in professional life
- Positive influence on professional life
- Beginning of numerous space careers

↳ New projects will follow!





www.oufti.ulg.ac.be



Thank you for your attention !

