

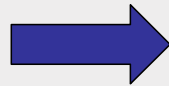
## **SPACE4SME PROJECT**

# ***MORE SPACE TO SMEs. IMPROVING SMEs PARTICIPATION IN ESA PROGRAMMES***

**Silvia Ciccarelli (AIPAS) - SPACE4SME Project Manager**

# THE SPACE4SME PROJECT

Commissioned by  **esa**



**Project Coordinator (Italy)**



**The Association of Specialist Technical Organisations for Space (UK)**

**With the collaboration of**



**and**



## **THE PURPOSE:**

- A) to identify the difficulties facing SMEs in their efforts to participate in ESA programmes;**
- B) to derive possible recommendations on how to overcome these difficulties,**

## **THE SPACE4SME PROJECT**

❖ **FRAMEWORK OF REFERENCE:** SMEs of all ESA Member States and companies of the 4 ESA Cooperating Countries (Czech Republic, Poland, Hungary and Romania);

❖ **TWO MAIN ASPECTS:**

- SMEs participation in ESA programmes (AIPAS)
- contractual and programmatic issues (ASTOS)

❖ **METHODOLOGY:**

- A questionnaire was sent to more than 1.400 SMEs
- Two Workshops:

**Prague (April 2008):** ESA Cooperating States

**Athens (June 2008):** Improving SMEs Participation in ESA Programmes  
(focusing on new ESA Member States)

## **THE STRUCTURE OF THE QUESTIONNAIRE – 6 SECTIONS**

### **1.ACCESS TO ESA PROCUREMENT INFORMATION**

### **2.THE ITTs CONTENT (2.1 Have you ever considered bidding for ESA?**

**If not → Section 6)**

### **3.BIDDING PERIOD (3.1 Have you ever submitted a bid for ESA work?**

**If not → Section 6)**

### **4.CONTRACT AWARD (4.1 Have you ever won an ESA bid? If not Section 6)**

### **5.AFTER THE CONTRACT**

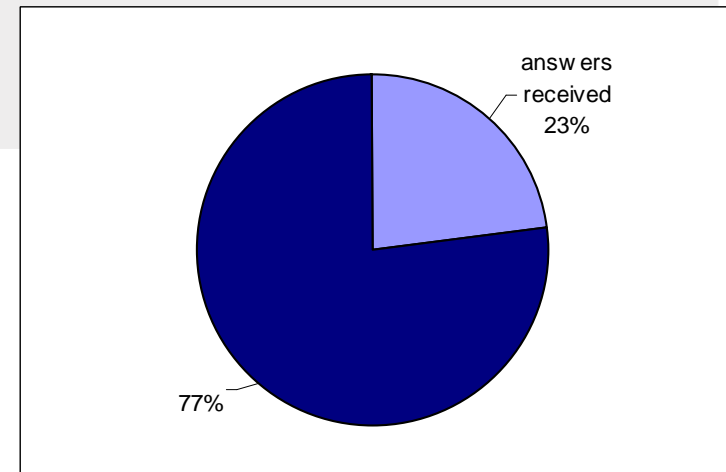
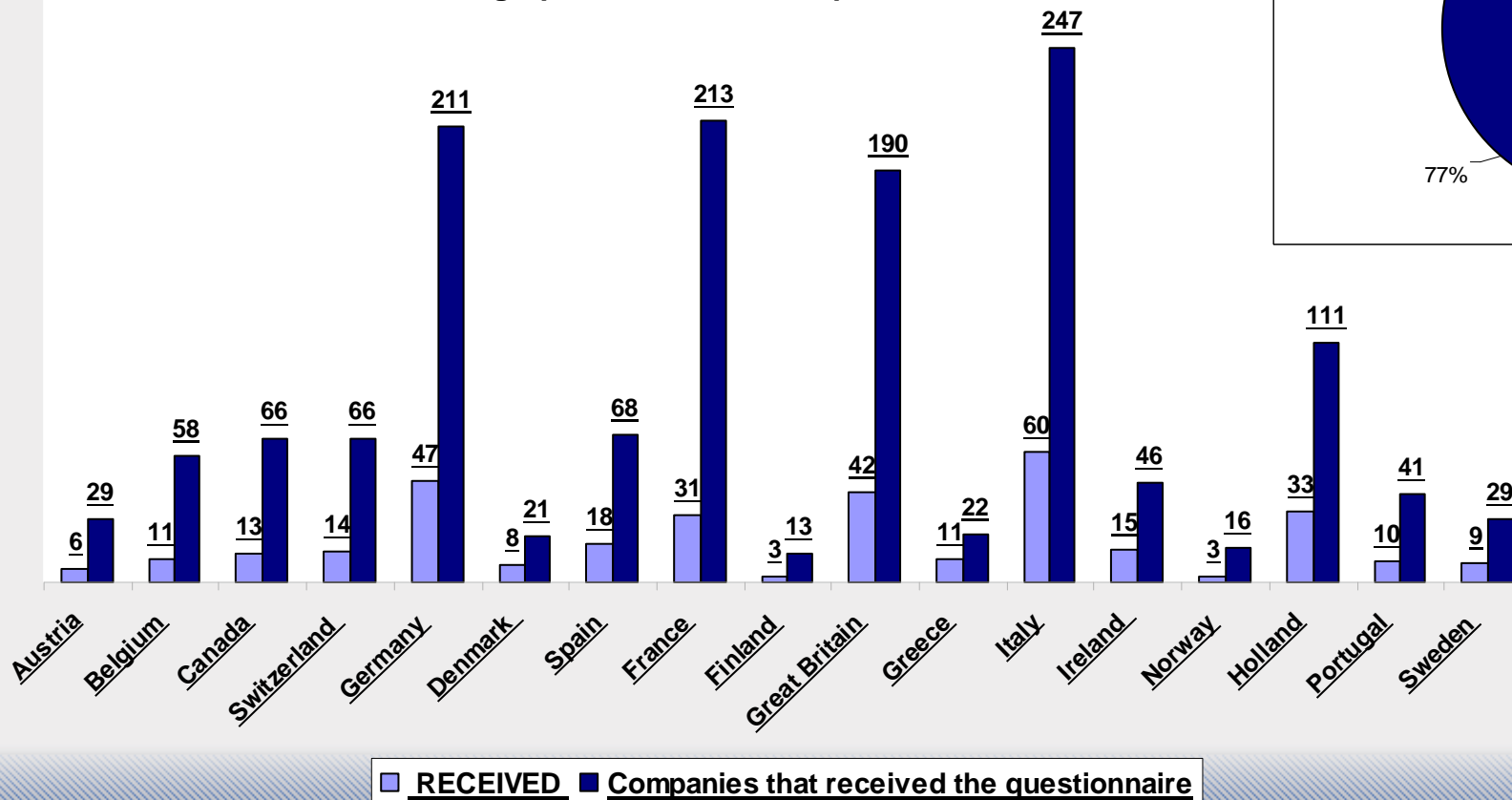
### **6.FUTURE INVOLVEMENT IN ESA PROGRAMMES**

- ❖ **569 companies started the questionnaire**
- ❖ **333 companies completed the questionnaire**

## QUESTIONNAIRE FEEDBACK

- The questionnaire has been sent in the middle of January 2008 to 1.466 SMEs
- 333 answers (23% of the total)

Geographical return of the questionnaire



## **SUMMARY OF RESPONDENTS**

**DIMENSION:**                      **53% < 1MEuro**                      **60% < 15 people**  
   **88% < 10MEuro**                      **22% < 16 < 50 people**

- almost 90% of the companies have considered to bid to ESA (81% in PECS)
- 78% have actually submitted a bid (29% in PECS)
- 67% of companies that tried to bid managed to win

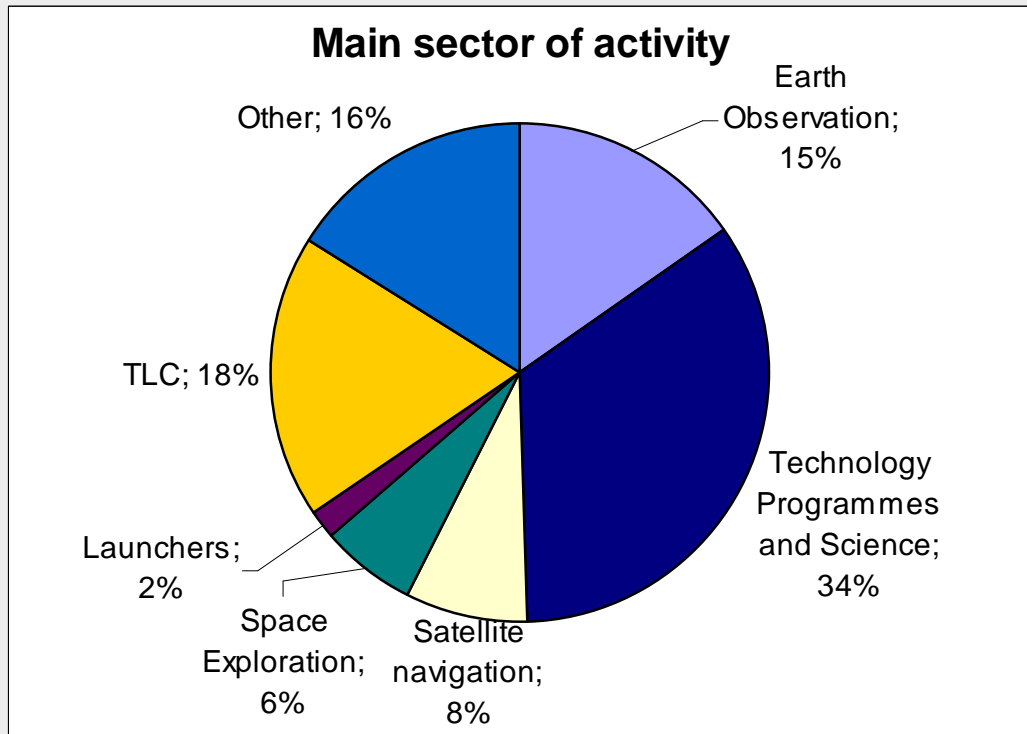
### **WAY of PARTICIPATION:**

- 52% as subcontractors;
- 48% act as Prime, bid-leader or project coordinator.

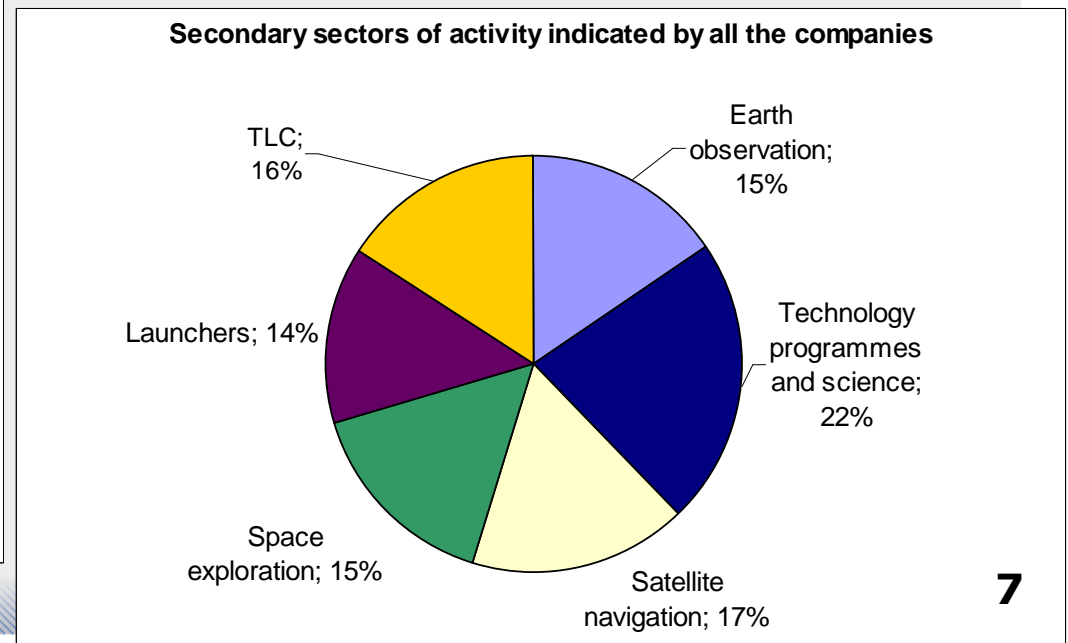
# SUMMARY OF RESPONDENTS

**TURNOVER COMING (DIRECTLY OR INDIRECTLY) FROM ESA IN THE LAST 3 YEARS:**

- 30% no activities with ESA in the last 3 years**
- 38% less than 20% of the turnover coming from ESA activities**
- 15% between 40% and 60% of the turnover coming from ESA activities**
- 17% more than 60%**



**TP and Science is the sector with the highest concentration of SMEs activities**



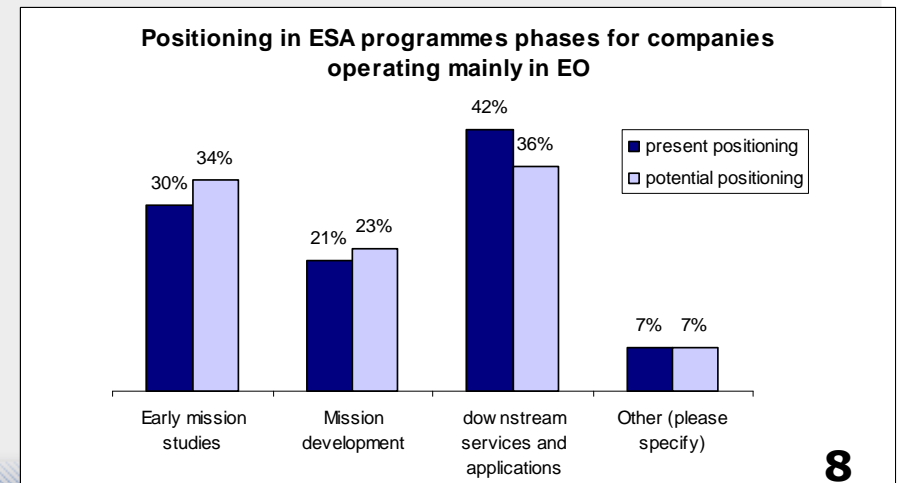
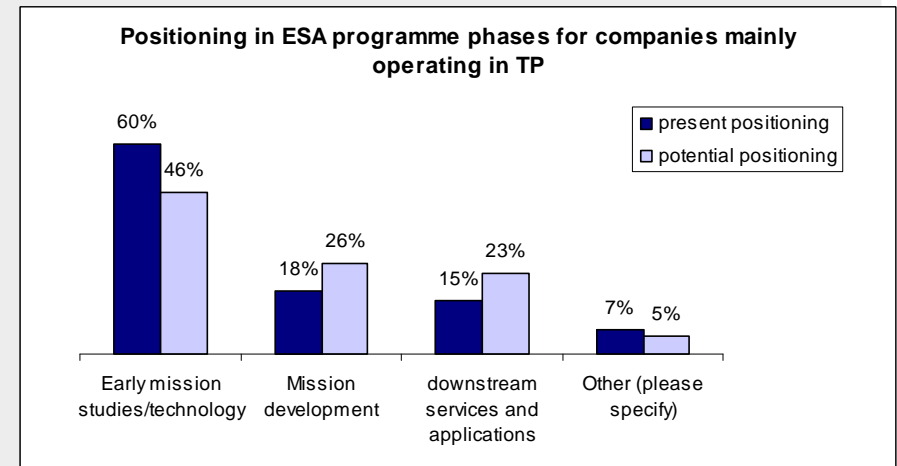
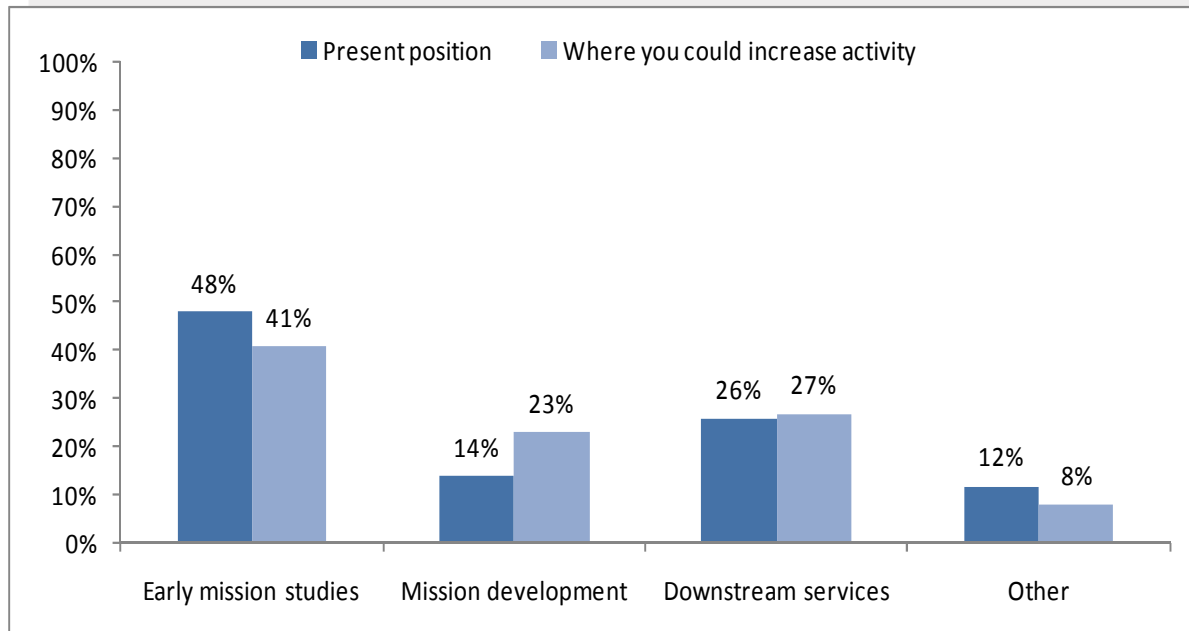
# THE POSITIONING OF SMEs IN THE ESA PROGRAMMES

Three main phases:

1. early mission studies/technology development projects;
2. mission development;
3. downstream services and applications

Where would you be able to increase your activities?

- 9% more in the mission development phase
- 2% downstream services and applications
- another 41% in the first phase



## **THE BENEFITS FOR SMEs COMING FROM THE PARTICIPATION IN ESA PROGRAMMES:**

- further participation in ESA programmes (33% - PECS 50%)**
- new space markets (23%)**
- non-space markets (19%) – but without ESA help**
- no gain at all (26%)**

## **THE BENEFITS FOR ESA COMING FROM A STRONGER INVOLVEMENT OF SMEs IN ESA PROGRAMMES (ACCORDING TO THE SMEs' POINT OF VIEW):**

- Innovation (81% considered this aspect of high or very high importance)**
- Cost effectiveness (79%)**
- Increased industrial competition (69%)**
- Flexibility: lower delivery time to achieve and higher return on investment (62%)**

## **MAIN DIFFICULTIES AND BOTTLENECKS THAT SMEs ENCOUNTERED:**

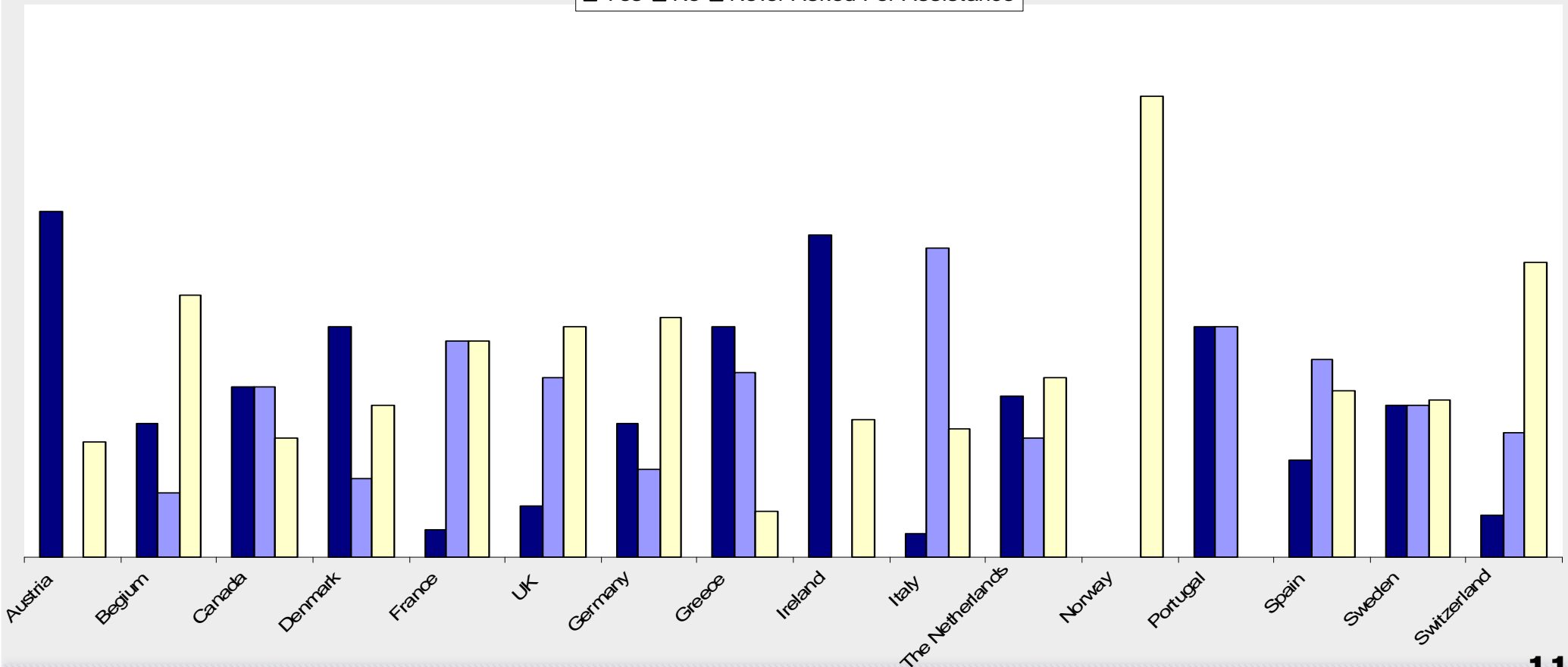
- 1. too much administration work with respect to the profitability (68%- very high or high difficulty), especially financial information**
- 2. competition with large industries even in small contracts (66%)**
- 3. the introduction of SMEs innovative technologies is under funded (58%), also in terms of costs estimation**
- 4. especially for TP: lack of integration between technologies developed and continuation of developments in C/D phases**
- 5. lack of support by national space agencies or national institutions.**  
**In aggregated terms 54% of the sample considered this aspect as a low or medium difficulty, but the results are very different from one country to another**

## NATIONAL ASSISTANCE

Different results from one country to another:

Has National assistance been helpful in improving your bid submission?

■ Yes ■ No ■ Never Asked For Assistance



## **MEASURES TO IMPROVE SMEs PARTICIPATION**

- **Improve SMEs participation to small missions or parts of missions (81% gave to this aspect high or very high importance). This could happen also with the creation of missions with suitable dimensions for SSI;**
- **Improve the involvement of SMEs in the early phases of the missions (79%);**
- **introduce new measures and specific procurement policies for SMEs (73%) and increase the information about measures already existing;**
- **simplify tender rules and amount of documentation for SMEs (70%), especially financial information;**
- **a better segmentation of ESA programs in phases available for SMEs (68%)**
- **National space agencies and organisations should play a more proactive role in general with regard to SMEs and ESA.**

## OPPORTUNITIES TO ENGAGE WITH SMES BETTER

**-76% of the SME sample is not a member of any kind of national or international Trade Association, and the most important reasons are that they haven't found a relevant Trade Association, or that they do not perceive a significant benefit from joining.**



# ESA Successes

## EMITS

**>85% satisfied with service**

## Bid content

**<7% say language is unclear**

**Bid response time 4-8wks (only 10% >8 weeks)**

**Tech bid length ok (75% 6-20pages – 200kEuro)**

**Contract conditions OK (only 5% have a problem)**

## Cashflow

**17% find EFIS difficult**

**Milestones (80% 20-30% k.o., 75% 10-20% withheld)**

## Funding Level

**Only 20% say not enough (however there are complains for funding for innovative technologies)**

## **Areas for Improvement**

### **IT Technical Specification**

**60% happy, 25% suggest over specification (10% under)**

### **Bid Process**

**25% Don't Understand Process**

### **Financial Data**

**50% say 1-5 pages ok for 200kEuro**

**50% say <10 pages for 2MEuro**

**ECOS, 60% not used, >50% who have find it difficult**

### **Bid Evaluation**

**50% Don't Understand Evaluation Process**

**60% think < 4 weeks reasonable evaluation time**

**75% think <4 weeks reasonable award/contract time**

# Opportunities?

## SME4space

**76% of Respondents are not part of ANY Trade Association**

## Harmonisation

**67% Not aware of Harmonisation**

**Half who are aware think it has no benefit**

## ESA SME Unit

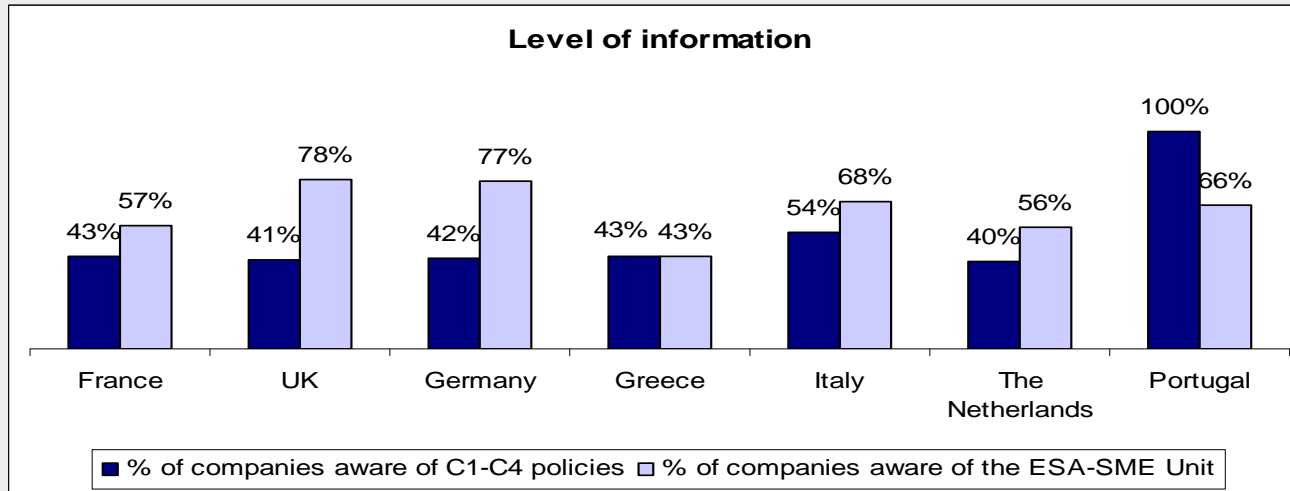
**33% Not aware of ESA SME Unit**

**Only 9% had spin-out help**

**55% Not aware of C1-C4 Measures**

**<10% Claim direct benefit of SME Unit**

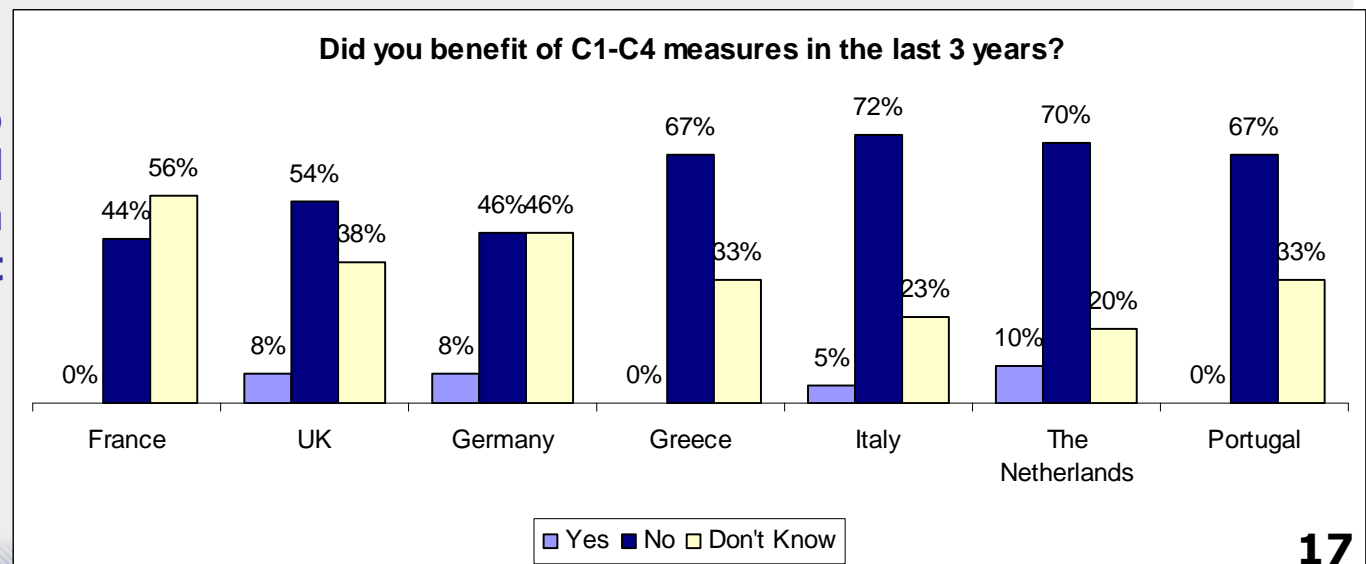
## THE LEVEL OF INFORMATION



**- in general 55% unaware of C1-C4 measures;**

**- 46% of these companies got the information from EMITS**

**As general average, only 7% of the companies benefited from these measures, while a large number (34%) did not know.**



# **Priority Areas to Change**

## **Competition with Primes**

**Strengthen C1-C4**

## **Profitability vs Administration**

**Reduce Financial Burden (PSS Forms)**

## **Introduction of New Technology**

**Increase TRP spend**

**Fund More Spin-In**

**Broaden Harmonisation Process**