



# The status of the engineer in society and the importance of mobility

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# Contribution of engineers to society

*“Engineering drives social, economic and human development and underpins our knowledge societies and infrastructures. It is a major factor in innovation and indeed the rise and fall of civilizations”*

*UNESCO Engineering Report, 2010*



# The need for mobility

*“ There has been a significant increase..in plans to recruit from within the EU, with 20% of (UK) employers looking to do so in the next 4-5 years ”*

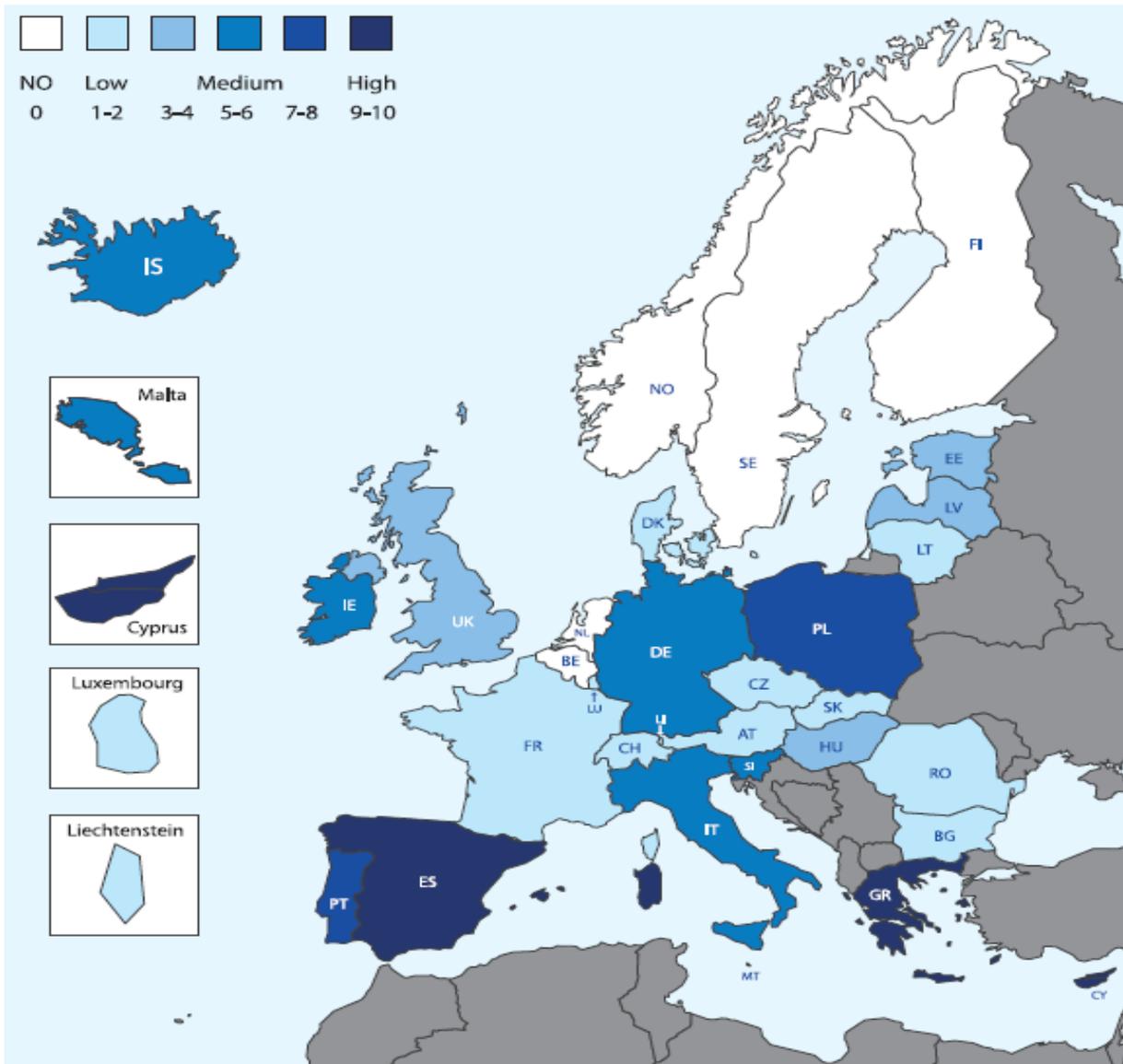
*Skills Demand 2014,  
Institution of Engineering and Technology*



# FEANI survey 2013

FEANI National Member	Inbound / of which from EU	Outbound / of which to EU
Germany	156000 (9.64%)	
Netherlands	5800	1000
Ireland	15% / 9%	14% / 7.5%
Denmark	12335 (9.57%)	2167 / 1045 (1.87%)
Finland		1487(1.7%)/830
France		104.800 (13.1%) /70.000
Sweden	16000 (8.5%)	1370 (1%)/869

# Levels of Regulation





# Why Regulate?

- *Inadequate competition*
- *Fraud, deception and oppressive marketing practices*
- ***Imperfect information***
- ***Safety***
- *Resolution of disputes and the pursuit of redress*
- *Social objectives*
- ***Vulnerable consumers***
- ***Raising standards***



# Good Practice Regulation

- *Transparency*
- *Accountability*
- *Targeting*
- *Consistency*
- *Proportionality*



# Professional Qualifications

- Academic qualification
- Registration based on academic qualification
- Competency-based Professional Register
  - Independent peer assessment of formal, informal and non-formal learning and work experience
- Professional registers usually require a commitment to a code of ethics/conduct, and to maintain competence through CPD



# The Engineering Team

Directive	Title
Article 11 (e)	Chartered Engineer (UK) Engenheiro (PT) Ingegnere (IT) Ingeniero (ES)
Article 11 (d)	Associate Engineer (IRE) Engenheiro Técnico (PT) Incorporated Engineer (UK) Ingegnere Iunior(IT) Ingeniero Técnico (ES) Injenor Iunior (IT) Mérnök (HU)
Article 11 (c)	Engineering Technician (IRE, UK) Techniker (DE)



## Mobility Tools

- EU Directive on Recognition of Professional Qualifications
- EUR ING title
- FEANI INDEX
- EUR-ACE Label
- Engineering Card



# Public image and engineers

*“We’re now 100% dependent on science and engineering for our future for food, medicine, clean water and air”*

Dr J Craig Venter,  
Global Grand Challenges Summit, 2013