



# **PROFESSIONAL RECOGNITION FOR CIVIL ENGINEERS**

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**BUCHAREST  
2007**

**- EUROPEAN COUNCIL OF CIVIL ENGINEERS**



## **PROFESSIONAL RECOGNITION**

**1. ENGINEERING  
RECOGNITION  
IN THE WORLD  
(NOT ONLY CIVIL)**



## PROFESSIONAL RECOGNITION

### WASHINGTON ACCORD (1989)

WASHINGTON – **ENGINEERS** MOBILITY (4 YEARS)

SYDNEY – ENGINEERING **TECHNOLOGISTS** (3 YEARS)

DUBLIN – **TECHNICIANS** MOBILITY FORUM (2 YEARS)

#### ENGLISH SPEAKING COUNTRIES

ACREDITATION IN EACH COUNTRY OF  
GRADUATE PROGRAMS



RECOGNITION OF CAPACITIES TO ENTER  
EMPLOYMENT LEADING TO REGISTRATION



## PROFESSIONAL RECOGNITION

### APEC ENG. AGREEMENT (1999)

(APEC - ASIAN PACIFIC ECONOMIES COOPERATION)

- 1. ENGINEERS APPLY TO  
COUNTRY MONITORING COMMITTEES  
TO BECOME AN **APEC ENGINEER****
- 2. ENGINEERS MAY WORK IN ANY  
APEC COUNTRY**



## PROFESSIONAL RECOGNITION

# APEC ENG. AGREEMENT CONDITIONS

**1. LANGUAGE: ENGLISH**

**2. TECHNICAL AND ETHICS CODES:  
HOME AND HOST COUNTRIES**

**3. PROFESSIONAL CONDITIONS:**

- FROM A RECOGNIZED ENG. PROGRAM
- RECOGNIZED IN OWN COUNTRY
- MINIMUM OF 7 YEARS PRACTICE
- 2 YEARS IN RESPONSIBLE POSITION
- CONTINUING PROFESSIONAL ACTIVITY



## PROFESSIONAL RECOGNITION

# 2. CIVIL ENGINEERING IN EUROPE



## PROFESSIONAL RECOGNITION

### CIVIL ENGINEERING IN EUROPEAN COUNTRIES

#### **TYPICAL SITUATIONS:**

- **REGULATED PROFESSION**
- **NON REGULATED PROFESSION**
- **PARTIAL REGULATED PROFESSION**



## PROFESSIONAL RECOGNITION

### CIVIL ENGINEERING IN EUROPEAN COUNTRIES

#### **REGULATED PROFESSION:**

- **EXIST PROFESSIONAL ASSOCIATIONS**
- **TO BE A PROFESSIONAL IT IS NEEDED TO BE REGISTERED IN A ASSOCIATION OR MINISTRY**
- **A FOREIGNER NEEDS TO BE ADMITED TO THE ASSOCIATION OR MINISTRY BASED ON C.V. AND ACADEMIC RECOGNITION**



## **PROFESSIONAL RECOGNITION**

### **CIVIL ENGINEERING IN EUROPEAN COUNTRIES**

#### **NON REGULATED PROFESSION:**

- ASSOCIATIONS ARE MORE OF CULTURAL TYPE
- TO BE A PROFESSIONAL IT IS JUST NEEDED TO HAVE A RECOGNIZED ACADEMIC DEGREE
- A FOREIGNER NEEDS:
  - a) Nothing (7 countries)
  - b) Recognition of academic degrees (others)



## **PROFESSIONAL RECOGNITION**

### **CIVIL ENGINEERING IN EUROPEAN COUNTRIES**

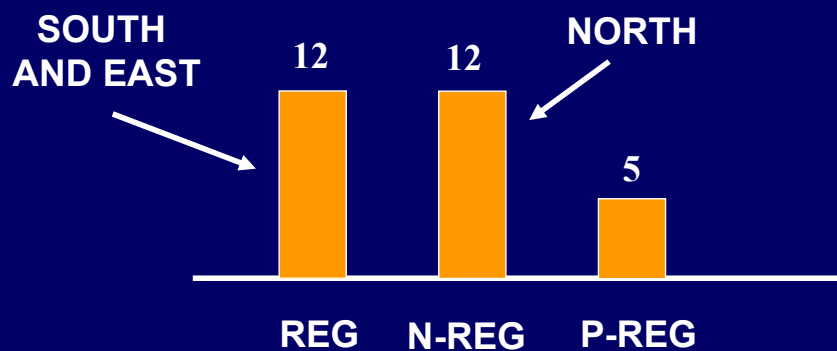
#### **PARTIAL REGULATED PROFESSION:**

- IT IS REGULATED FOR SOME ACTIVITIES  
(Independent engineer, construction, etc.)
- IT IS NON REGULATED FOR OTHERS  
(Public servant, etc.)
- UK+IRELAND – IT IS REGULATED FOR SOME  
PROFESSIONAL LEVELS (CHARTERED ENG.)



## PROFESSIONAL RECOGNITION

### CIVIL ENGINEERING IN EUROPEAN COUNTRIES ( EUROPE 25 + 4 )



## PROFESSIONAL RECOGNITION

### 3. THE E.C. DIRECTIVE RECOGNITION OF PROFESSIONAL QUALIFICATIONS



## PROFESSIONAL RECOGNITION

### EFFECTS OF RECOGNITION (art. 4):

**“...THE BENEFICIARY GAIN ACCESS IN THE HOST COUNTRY TO THE SAME PROFESSION AS THAT FOR WHICH HE IS QUALIFIED IN THE HOME COUNTRY AND TO PURSUE IN THE HOST COUNTRY UNDER THE SAME CONDITIONS AS THE NATIONALS.”**



## PROFESSIONAL RECOGNITION

### CONDITIONS FOR RECOGNITIONS (art. 13):

**“...THE HOST COUNTRY SHALL PERMIT ACCESS TO AND PURSUIT OF THAT PROFESSION, UNDER THE SAME CONDITIONS AS APPLY TO ITS NATIONALS...”**

**SOME COMPENSATION MEASURES MAY EXIST (art. 14) (adaption period or tests)**



## PROFESSIONAL RECOGNITION

### **COMMON PLATFORMS (art. 15):**

**“ .. SET OF CRITERIA OF PROFESSIONAL QUALIFICATIONS FOR COMPENSATING DIFFERENCES BETWEEN TRAINING IN VARIOUS COUNTRIES..”**

**- PROF. BODIES CAN PROPOSE COMMON PLATFORMS TO FACILITATE RECOGNITION**

**- COMMON PLATFORMS MAY INCLUDE COMPENSATION MEASURES (adaption period, examen, minimum professional practice)**

**-PROFESSIONAL CARDS SHOULD FACILITATE MOBILITY**



## PROFESSIONAL RECOGNITION

### **ECCE TENTATIVE COMMON PLATFORM (2006):**

**- MEMBERS ARE REGISTERED IN A COMMON PLATFORM ORGANIZED BY NATIONAL ASSOCIATIONS.**

**- THE HOST MEMBER RECOGNISES THE PROFESSIONAL STATUS TO THE MEMBERS TOTALLY AND WITH NO RESTRICTION TO ANY NORMAL CIVIL ENGINEERING WORK.**



## PROFESSIONAL RECOGNITION

### ECCE TENTATIVE COMMON PLATFORM

#### MAIN CONDITIONS FOR ADMITION:

##### CIVIL ENG. WITH MASTER

- **ACADEMIC EDUCATION (4 YEARS OR 270 ECTS)**
- **3 YEARS OF PROFESSIONAL EXPERIENCE**
- **MEMBER OF NATIONAL ASSOCIATION**

##### CIVIL ENG. WITH BACHELOR

- **ACADEMIC EDUCATION (3 YEARS OR 180 ECTS)**
- **3 YEARS OF PROFESSIONAL EXPERIENCE**
- **MEMBER OF NATIONAL ASSOCIATION**



## PROFESSIONAL RECOGNITION

### ECCE TENTATIVE COMMON PLATFORM

#### PROBLEMS:

- **IT DOES NOT CONSIDER THE VARIOUS TYPES OF ACADEMIC EDUCATION (WIDE OR NARROW)**
- **IT DOES NOT CONSIDER THE VARIOUS TYPES OF CONDITIONS TO BE A PROFESSIONAL**
- **IT DOES NOT CONSIDER THE VARIOUS TYPES OF ASSOCIATIONS**



## **PROFESSIONAL RECOGNITION**

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### **ECCE ALTERNATIVE**

**THE ECCE COUNTRIES DO NOT NEED  
A COMMON PLATFORM IF THEY REACH  
AN INTERNATIONAL AGREEMENT**



## **PROFESSIONAL RECOGNITION**

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**4. WHAT IS A  
CIVIL ENGINEER ?**



# PROFESSIONAL RECOGNITION

## WHAT IS A CIVIL ENGINEER ?

### IN EUROPE WE SEE:

- **VARIOUS TYPES OF ACADEMIC DEGREES (3, 4, 5, 6 YEARS)**
- **VARIOUS TYPES OF FORMATION (WIDE AND NARROW)**
- **VARIOUS TYPES OF CONDITIONS TO BE PROFESSIONAL**
- **VARIOUS TYPES OF ASSOCIATIONS**



# PROFESSIONAL RECOGNITION



## THE CIVIL ENGINEER CARTA

1. A civil engineer is a professional, academically educated and practice-oriented, who uses scientific, technical and other pertinent knowledge to perform civil engineering acts, aiming to contribute to a sustainable world, with a better quality of life.

2. The civil engineer acts are presently:

a. Design of :

- Structures;
- Building physics and piping;
- Foundations and geotechnical solutions;
- Roads and other communication infrastructures;
- Water and sanitary infrastructures;
- River and coastal infrastructures;
- Urban planning;
- Safety planning.

b. Construction of buildings and infrastructures, performing :

- Technical direction;
- Construction management and control;
- Materials production;
- Safety, health and environment management.

c. Operation and maintenance of buildings and infrastructures, performing :

- Building investments management;
- Inspection, maintenance and repair;
- Operation management.

3. The civil engineer knowledge is obtained from academic studies, professional experience and life learning education.

4. Based on his knowledge, the acts that each civil engineer should perform are defined in each country by a national institution.



## PROFESSIONAL RECOGNITION

### THE CIVIL ENGINEER CARTA

#### 1. DEFINITION

A civil engineer is a professional, academically educated and practice-oriented, who uses his scientific, technical and other pertinent knowledge to perform civil engineering acts, aiming to contribute to a sustainable world, with a better quality of life.



## PROFESSIONAL RECOGNITION

### 2. THE CIVIL ENGINEER ACTS

#### Design of :

- Structures;
- Building physics and piping;
- Foundations and geotechnical solutions;
- Roads and other communication
- Infrastructures;
- Water and sanitary infrastructures;
- River and coastal infrastructures;
- Urban planning;
- Safety planning.



## PROFESSIONAL RECOGNITION

### 2. THE CIVIL ENGINEER ACTS

#### Construction of buildings and infrastructures:

- Technical direction;
- Construction management and control;
- Materials production;
- Safety, health and environment management.

#### Operation and maintenance of buildings and infrastructures:

- Building investments management;
- Inspection, maintenance and repair;
- Operation management.



## PROFESSIONAL RECOGNITION

### 3. KNOWLEDGE

The civil engineer knowledge is obtained from academic studies, professional experience and life-learning education.



## PROFESSIONAL RECOGNITION

### 4. PROFESSIONAL ASSOCIATIONS

Based on his knowledge, the acts that each civil engineer should perform, are defined in each country by a national institution.



## PROFESSIONAL RECOGNITION

### 5. WHAT ARE THE PROBLEMS TO BE ENGINEER IN A FOREIGN COUNTRY ?



# **PROFESSIONAL RECOGNITION**

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**1. LANGUAGE**

**2. ETHICS, TECHNICAL AND  
ADMINISTRATIVE REGULATIONS**

**3. PROFESSIONAL RECOGNITION**



# **PROFESSIONAL RECOGNITION**

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**5.1 LANGUAGE**



## PROFESSIONAL RECOGNITION

**CIVIL ENGINEERING ACTS  
MUST BE PERFORMED  
IN HOST COUNTRY LANGUAGE**

**EXAMPLE:**

- **DESIGN DOCUMENTS IN HOST COUNTRY LANGUAGE**
- **CONSTRUCTION CONTROL WITH TRANSLATOR**



## PROFESSIONAL RECOGNITION

**5.2 ETHICS, TECHNICAL AND  
ADMINISTRATIVE  
REGULATIONS**



## PROFESSIONAL RECOGNITION

### **ETHICS, TECHNICAL AND ADMINISTRATIVE REGULATIONS FROM HOST COUNTRY**

#### **EXAMPLE:**

- **EUROPEAN CODES**
- **HOST COUNTRY CODES**



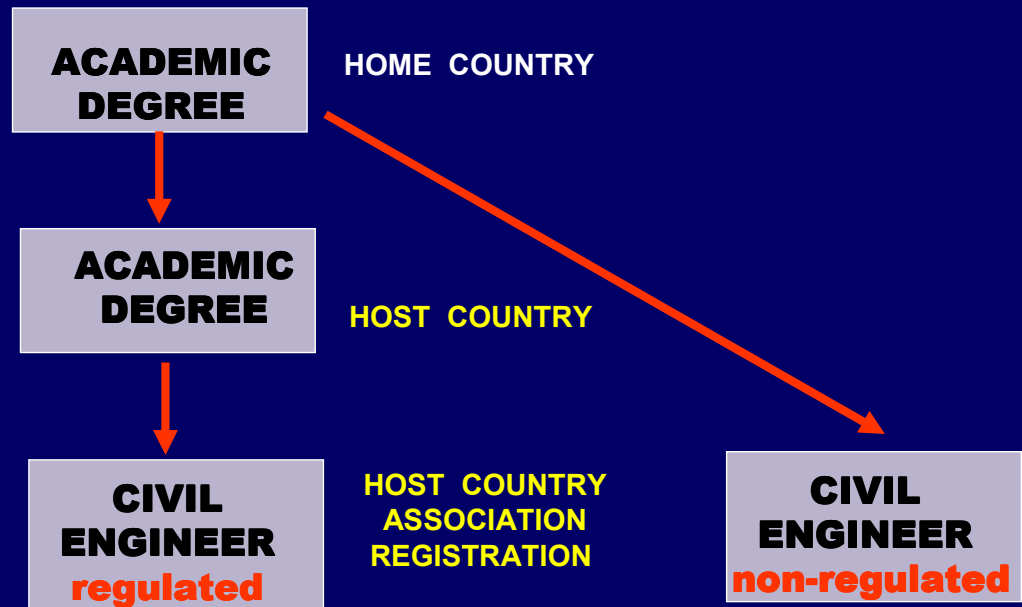
## PROFESSIONAL RECOGNITION

### **5.3 PROFESSIONAL RECOGNITION STRATEGIES**



# PROFESSIONAL RECOGNITION

## 1. ACADEMIC APPROACH



# PROFESSIONAL RECOGNITION

## 1. ACADEMIC APPROACH

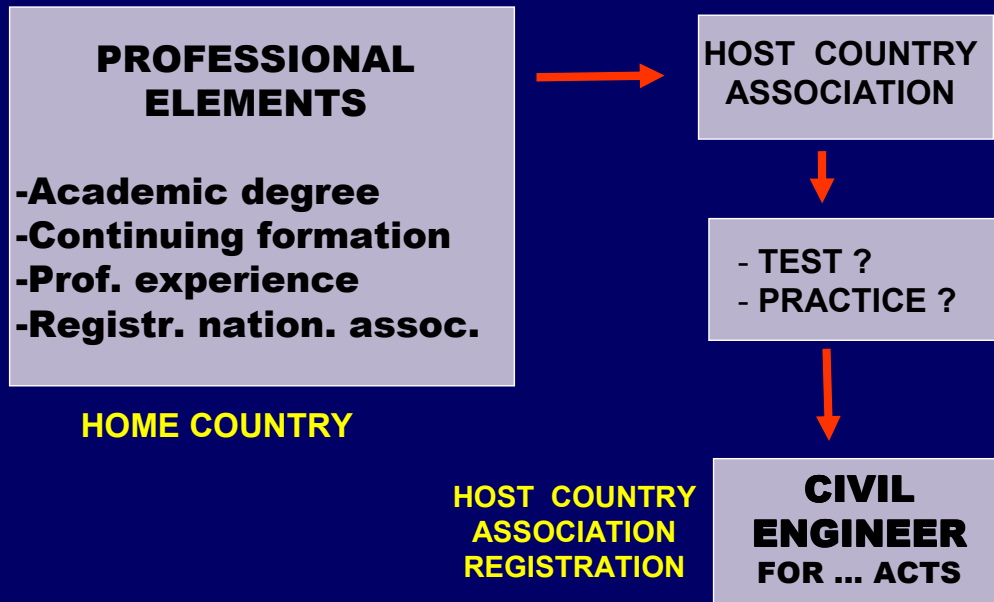
### PROBLEMS:

- IT WORKS ONLY IF ACADEMIC DEGREES ARE SIMILAR IN BOTH COUNTRIES.
- IT TAKES A LONG TIME



# PROFESSIONAL RECOGNITION

## 2. HOST ASSOCIATION APPROACH



# PROFESSIONAL RECOGNITION

## 2. HOST ASSOCIATION APPROACH

### PROBLEMS:

- DIFFICULT TO CONTROL ORIGINAL QUALITY
- PROBLEMS WHEN IT IS NOT THE ASSOCIATION THAT ALLOWS THE RECOGNITION.
- ALLOWS RECOGNITION ONLY FOR SPECIFIC ACTS, BASED ON ORIGINAL ACADEMIC DEGREE OR EXPERIENCE



## PROFESSIONAL RECOGNITION

### 3. ECCE CIVIL ENGINEER APPROACH

#### ECCE SUPERVISION BOARD

#### PROFESSIONAL ELEMENTS

- Academic degree certif.
- Continuing formation certif.
- Indication of prof. acts.
- Prof. experience of 7 years
- Control of prof. exp.
- Registr. nation. **institution**

HOME COUNTRY

HOME COUNTRY  
**INSTITUTION**

**ECCE CIVIL  
ENGINEER  
FOR ... ACTS**

ALL HOST  
COUNTRIES



## PROFESSIONAL RECOGNITION

### 3. ECCE CIVIL ENGINEER APPROACH

#### **PROBLEMS:**

- **PROBLEMS WHEN IT IS NOT THE ASSOCIATION THAT ALLOWS THE RECOGNITION.**
- **ALLOWS RECOGNITION ONLY FOR SPECIFIC ACTS, BASED ON ORIGINAL ACADEMIC DEGREE.**



## PROFESSIONAL RECOGNITION

### 6. DECISIONS IN BUCHAREST



## PROFESSIONAL RECOGNITION

1. GENERAL APPROVAL OF CIVIL ENGINEER CARTA AND ACTS (POINT 4)
2. ALTERNATIVES TO DETAILS OF CARTA WILL BE SUBMITTED LATER AND VOTED BY E-MAIL
3. APPROVAL OF FOREIGN POLICY RELATED TO LANGUAGE (POINT 5.1) AND CODES (POINT 5.2)
4. DISCUSSION OF STRATEGIES FOR PROFESSIONAL RECOGNITION (POINT 5.3):
  - HOST ASSOCIATION APPROACH;
  - ECCE CIVIL ENGINEER;
  - OTHERS ??



**END**



**- EUROPEAN COUNCIL OF CIVIL ENGINEERS**