

TEE



EUROPEAN MEETING  
EUREKABUILD

## TOWARDS A SUSTAINABLE BUILT ENVIRONMENT & A LIVING CULTURAL HERITAGE

ATHENS

21

MAY 2007



NATIONAL HELLENIC RESEARCH FOUNDATION, AMPH. "LEONIDAS ZERVAS"  
48, VAS. KONSTANTINOU AVE.

## Coordinating Committee of the Hellenic Construction Technology Platform

<b>A. Moropoulou,</b>	National Technical University of Athens Prof., President
<b>K. Symakezis,</b>	National Technical University of Athens Prof., Vice President
<b>Ch. Akrifides,</b>	Deputy Mayor of Athens, President of the Hellenic Association of Rural & Surveying Engineers
<b>D. Bikas,</b>	Aristotle University of Thessaloniki Prof.
<b>V. Chandakas,</b>	Responsible of the Permanent Committee of Culture & Cultural Heritage Issues of Technical Chamber of Greece
<b>E. Chaniotakis,</b>	Research & Quality Director of TITAN Cement Company S.A.
<b>M. Founti,</b>	National Technical University of Athens As. Prof.
<b>M. Grossou Vaila,</b>	Director of Mineral processing Dept. of the Greek Institute of Geology & Mineral Exploration
<b>E. Kanitaki,</b>	President of the Hellenic Department of Concrete
<b>A. Liolios,</b>	Democritus University of Thrace Prof., Vice president of Egnatia Odos S.A.
<b>I. Marinos,</b>	Quality & Production Procedure Director of AGET
<b>I. Papaioannou,</b>	ex. President of the Pan-hellenic Association of Engineers Contractors of Public Works
<b>I. Paspaliaris,</b>	National Technical University of Athens Prof.
<b>G. Syrianos,</b>	President of the Association of the Technical Companies of the Highest Classes
<b>P. Zannis,</b>	General Secretary of the Hellenic Association of Consulting Firms

### ORGANISATION

Department of Scientific and Development Work of TEE -  
Culture & Cultural Heritage Office *Tel.:* +30-210-3291306  
*E-mail:* [politismos@central.tee.gr](mailto:politismos@central.tee.gr)

Office of Research & Technology  
*E-mail:* [akonsta@central.ntua.gr](mailto:akonsta@central.ntua.gr)



## PROGRAM 21 MAY 2007

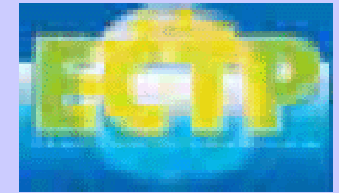
8:00	9:00	Registration
9:00	10:30	<b>OPENING SESSION</b> <i>Opening Speech</i> <b>A. Moropoulou</b> , President of the Coordinating Committee of the Hellenic Construction Technology Platform, NTUA Prof. <i>Opening</i> <b>D. Sioufas</b> , Minister of Development <i>Addresses</i> <b>J. Alavanos</b> , President of Technical Chamber of Greece <b>K. Moutzouris</b> , Rector of National Technical University of Athens, NTUA Prof. <b>Ch. Euthyvolou</b> , President of the Cyprus Scientific & Technical Chamber <i>Keynote Speakers</i> <b>J. Rodriguez</b> , Chairman of European Construction Technology Platform Support Group & Chairman of EurekaBuild <b>R. Zamic</b> , Leader of the Focus Area "Cultural Heritage" of the European Construction Technology Platform
10:30	13:00	<i>Presentation of EurekaBuild proposal ideas</i>
13:00	14:00	Lunch
14:00	16:00	<i>Brokerage Meetings</i> Exchange of ideas among the interested partners (companies industrial partners, academic, research and technological partners) and expression of interest for participation in proposals or development of common EurekaBuild proposals
16:00	17:00	<b>CONCLUDING SESSION</b> <i>Round Table Discussion</i> <i>Conclusions</i>
17:00		End of the Meeting

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22 May 2007

*EurekaBuild Steering Committee Meeting*

*National Hellenic Research Foundation - Conference Hall*



# Opening Speech

A. Moropoulou

*President of the Coordinating Committee of the  
Hellenic Construction Technology Platform, NTUA  
Prof.*

# The Construction Sector in Greece

Leading role in the main infrastructure projects



- "Olympic Games" projects
- Rio - Antirio Bridge
- Highway projects (Egnatia Odos, Attiki Odos)
- Underground projects (Attiko Metro etc)
- Harbor Infrastructure
- Construction
- Protection of traditional and historic buildings - Cultural Heritage - Museums

Supports the development of basic sectors of construction materials (cement, steel, aluminum, bricks and ceramics)

# The contribution of Greek Engineers in the Construction Sector

The construction sector involves



(2003)

-310.000 direct employees

-32.500 Engineers plus 15.000 Study Engineers

# The contribution of Research & Technology on development is decisive in the Construction Sector

*The promotion of Research & Technology should:*

- Contribute to the creation of added value and to the modernization of development such that it corresponds to the needs of society
- Enhance applied research which is the connection between basic research and development

# The contribution of Greek Engineers in Research and Technological Development

According to a Technical Chamber of Greece Study (2003), from a total number of 85.000 members, more than 8.500 engineers (~10%) are employed in Research

at Academic Institutions

at Research Centers

at Research & Development Companies

At the public sector

at companies of the private sector (industry, services)



# The contribution of Greek Engineers in Research and Technological Development

However, the Greek Study Engineers are not certified in our country although they are certified abroad. The bureaucracy and development mechanisms in research - innovation as well as the institutional acceptance of the role of the study engineers and especially the young ones, are key issues in the development of the Greek economy and the augmentation of its competitiveness on European and International level

# The Technical Chamber of Greece as coordinator of HCTP

Assumes its responsibilities in the National strive to improve the competitiveness of the construction "industry"

Realizes its significant role for:

- Innovation
- Outgoing character
- Unification of European Market with support to the leading role of the Greek construction "industry"



## Hellenic Construction Technology Platform (HCTP)



Το Τεχνικό Επιμελητήριο Ελλάδας, το Εθνικό Μετσόβιο Πολυτεχνείο και η Ελληνική Πλατφόρμα Έρευνας & Τεχνολογίας για τ

## Ελληνική Πλατφόρμα Έρευνας & Τεχνολογίας για την Κατασκευή (ΕΠΕΤΚ)



### Αρχική

### Στόχοι - Προσδοκώμενα Αποτελέσματα ΕΠΕΤΚ

### Εκδηλώσεις - Συναντήσεις

### Προγράμματα ΕΣΤΡ - ΗΣΤΡ

### Χρήσιμες Διευθύνσεις

### Εγγραφή στην Πλατφόρμα

Ο Ευρωπαϊκός κατασκευαστικός κλάδος, ο μεγαλύτερος βιομηχανικός κλάδος στην Ευρωπαϊκή Ένωση, έχει ξεκινήσει μια προσπάθεια συγκέντρωσης της κρίσιμης μάζας των ενδιαφερόμενων φορέων Έρευνας και Τεχνολογίας στην Κατασκευή σε Πανευρωπαϊκό επίπεδο, δημιουργώντας την Ευρωπαϊκή Πλατφόρμα Τεχνολογίας για την Κατασκευή. Σκοπός της Πλατφόρμας είναι να καθοριστεί κοινή Στρατηγική για την έρευνα σε Ευρωπαϊκό επίπεδο.

Οι τομείς στους οποίους εσπάζεται η Ευρωπαϊκή Πλατφόρμα είναι οι:

- Υπόγειες Κατασκευές
- Πόλεις και Κτίρια
- Παιδιάτα Ζωής

### Συγκρότηση της ΕΠΕΤΚ

Το Τεχνικό Επιμελητήριο της Ελλάδας αναλαμβάνοντας τις ευθύνες του στην εθνική προσπάθεια για την βελτίωση της ανταγωνιστικότητας...

### Εθνική Στρατηγική

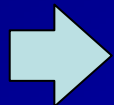
Η ΕΠΕΤΚ συντονίζεται με την Ευρωπαϊκή Πλατφόρμα Έρευνας και Τεχνολογίας για την

# HCTP Roadmap

**1<sup>st</sup> Meeting for the launching of the Hellenic Construction Technology Platform** [5 February 2005 during Helleco 2005] and acceptance of the Organizing Committee as Coordinating Committee

*Acceptance of the decision and enlargement of the coordinating committee with an act by the Administration Committee of TCG*

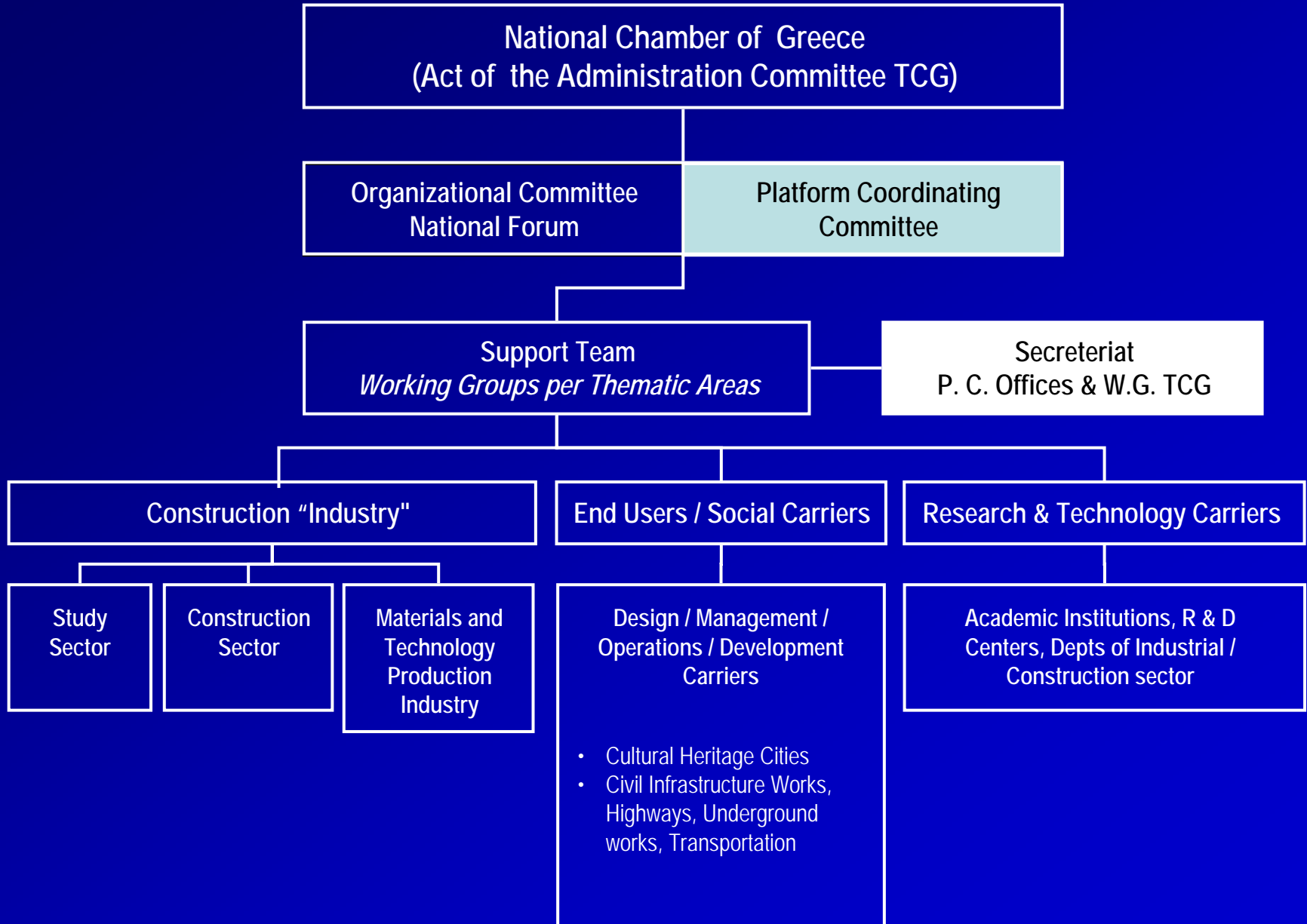
**2<sup>nd</sup> Meeting "Hellenic Construction Technology Platform with an emphasis on sustainable construction and cultural heritage protection** [19 October 2005] Recognition by the Greek Government - Ministry of Development - of the HCTP



National Strategy: Research Priorities

**3<sup>rd</sup> National Meeting of HCTP "The construction sector companies take the lead"** [22-23 June 2006] with the aim to actively participate in the national strategy for the promotion of research priorities in the construction sector in the framework of the exhibition "Days of Research & Technology"

# HCTP STRUCTURE



# 180 Participating Organizations

## 1. Construction Industry (38%)

- Study Sector
- Construction Sector
- Materials & Technology Production Industry

## 2. Research & Technology Organizations (22%)

- Academic Institutions
- Research Centers
- Research Department of Industrial / Construction Sector

## 3. End Users - Social Carriers (40%)

- Planning / Management / Operations / Development Carriers
- Cultural Heritage Cities
- Infrastructure Works

# Creation of HCTP website

- **Targets - Desired Results of HCTP** [*National European Vision, National Strategy, Activation of the contribution - support of the outgoing character and competitiveness of the construction sector*]
- **Meetings** [*1<sup>st</sup>, 2<sup>nd</sup> 3<sup>rd</sup>*]
- **ECTO - HCTP Programs** [*JTI- Energy Efficient Buildings. JTI- Large Tunnels*]
- **Useful Links** [*[http://cordis.europa.eu/technology-platforms/home\\_en.html](http://cordis.europa.eu/technology-platforms/home_en.html), <http://www.ectp.org/>, <http://eccredi.org/>, <http://www.encord.org/>, <http://www.erabuild.net/>*]
- **Membership form** [*<http://www.hctp.tee.gr/eggrafi.html>*]
- **Contact info** [*[amoropul@central.tee.gr](mailto:amoropul@central.tee.gr)*]
- **Launching of HCTP** [*5<sup>th</sup> February 2005*]
- **National Strategy**
- **HCTP Structure**
- **Priorities and handicapped persons access**
- **Euro Impact Survey** [*[www.mbs.ac.uk/EuroImpactSurvey](http://www.mbs.ac.uk/EuroImpactSurvey)*]

HCTP is a network, its basis is the TCG and functions through:

- ✓ National meetings (at least 2 per year)
- ✓ Organisation Committee (OC) meetings (at least 1 per 2 months)
- ✓ OC Secretariat meetings (at least 1 per 15 days)
- ✓ HCTP representation in the ECTP meetings (President of Vice-President)
- ✓ HCTP representation in the ECTP-WGs meetings





# HCTP coordinates with ECTP on the following basic areas

- Reformation of the construction “industry” into a knowledge based one so that it serves:
- The public interest and the needs of the end users and society
- The sustainable development of the environment through the implementation of sustainable construction

**AND ADDS THE PROTECTION OF CULTURAL HERITAGE AND ITS INTRODUCTION TO CONTEMPORARY LIFE**

# RESEARCH PRIORITIES FOR SUSTAINABLE BUILT ENVIRONMENT

- Reduction of energy, water and raw material resources
- Minimization of detrimental influence of materials, construction and production technology of built environment over the entire environment
- Minimization of environment impact to the built environment constructions, leading to cost reduction and lifetime increase
- Sustainable management of buildings and civil infrastructures in their entire life cycle

# RESEARCH PRIORITIES FOR A LIVING CULTURAL HERITAGE

- Utilization of know-how that is created from studying historic buildings (FACH WG2. Materials, WG3. Interventions and Techniques)
- Advanced diagnosis for the identification of decay mechanisms and pathology, environmental impact assessment - structural analysis. Use of non-destructive techniques and verification with instrumental analyses (FACH WG1. Assessment, Monitoring and Diagnosis)
- Planning, application, assessment and monitoring over time of compatible materials and restoration / protection interventions, based on historic materials' properties and the behavior of historic structures, aiming to improve the behavior of the structure under environmental and seismic loads (FACH WG1. Assessment, Monitoring and Diagnosis)

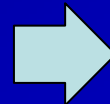
# RESEARCH PRIORITIES FOR A LIVING CULTURAL HERITAGE

- ✓ Strategic planning of restoration / protection interventions through integrated management of geographical information (in respect to materials, structures, architectural design) and use of scientific decision making tools in order to ensure sustainable protection of cultural heritage (FACH WG5. Management, Exploitation and Maintenance)
- ✓ Integrated environmental management and energy planning for the protection of cultural heritage (FACH WG4. Energy and Environment, WG5. Management, Exploitation and maintenance)
- ✓ Conservation, utilization, management - city planning - historic cities (FACH WG5. Management, Exploitation and maintenance, WG6. City and Territorial Aspects)

Implementation of  
Research Priorities

Announcement of  
National Projects

*EUROCARE Programs*



**EUREKABUILD**

European Programs in FP7

# Initiatives for the participation of Greece to EUREKABUILD - The role of HCTP & TCG

The HCTP & TCG promptly disclaimed their dissatisfaction for the exemption of Greece from EUREKABUILD

On the occasion of the ECTP & FACH proposal to hold EUREKABUILD '07 on May 21<sup>st</sup> in Athens, we demanded (February 2007) from the Ministry of Development:

- *National Funding for EUREKA approximately € 10 m*
- *Adoption of the research priorities for sustainable construction and living cultural heritage*

***The Ministry of Development responded immediately  
(request to the Ministry of Economy)***

# Objectives of the EUREKABUILD Meeting

Briefing  
Actions  
Exchange of Ideas

Industrial partners  
Construction sector  
Research & Technology  
Carriers  
End users

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↓

Ideas - suggestions  
Indication of interest  
Participation to proposals  
Eurekabuild consortiums



# How a EUREKA-EUREKABUILD is created



## STEP 1

YOU HAVE AN IDEA  
FOR A RESEARCH  
PROGRAM

- 10 Proposals for Sustainable Construction
- 17 Proposals for Cultural Heritage Protection

## STEP 2

Develop the idea-program  
and the consortium of  
participating members  
(national European level)

10:30-13:00 Presentation  
of Ideas - Programs  
14:00-16:00 Brokerage  
meetings

Objective: Consortiums  
development

ESP  
Submission of  
proposal



Ensure funding for each participating carriers

▼  
National Program

▼  
Self-liquidation

**STEP 3**

✓ National funding schemes

↓  
All carriers prepare and sign Consortium Agreement

**STEP 4**

↓  
Submission of program application form, signed by all participants, to EUREKA, through ESP the program contractor, the program

**STEP 5**

Eureka program application form

↓  
If all EUREKA criteria are met the program is supported

**STEP 6**

**STEP 7**

↓  
The program obtains the EUREKA title and funded

→  
The program starts!!

# Eureka-Eurekabuild Programs

Acceptable programs for EUREKABUILD are those that:

- At least 2 European countries participate, and as long as there is one "industrial participation" in each country, which can be either a large or medium-sized company
- A large company is one that employs at least 250 employees or has an annual turnover of more than € 50 m

# Funding Scheme of Ideas-Proposals for Greece

Funding at National Level

~200.000 Euro

50%  
Public  
Funding

50%  
European  
Funding

Total Program Cost

Large  
Company

~400.000  
Euro

(50%  
own funds)

SME

~445.000  
Euro

(55%  
Own Funds)

# Own Funds:

- o Personnel Expenditure
- o Instrument, equipment Cost
- o Additional general costs
  - ✓ Travel Expenses
  - ✓ Promotion of Program Achievements
  - ✓ Miscellaneous costs

# The European Meeting on 21 May 2007 EUREKABUILD

## Has identity

Indicated interest:

- ✓ *105 Carriers' representatives*
  - 38 Representatives from European Carriers'*
  - 67 Representatives from Greek Carriers'*

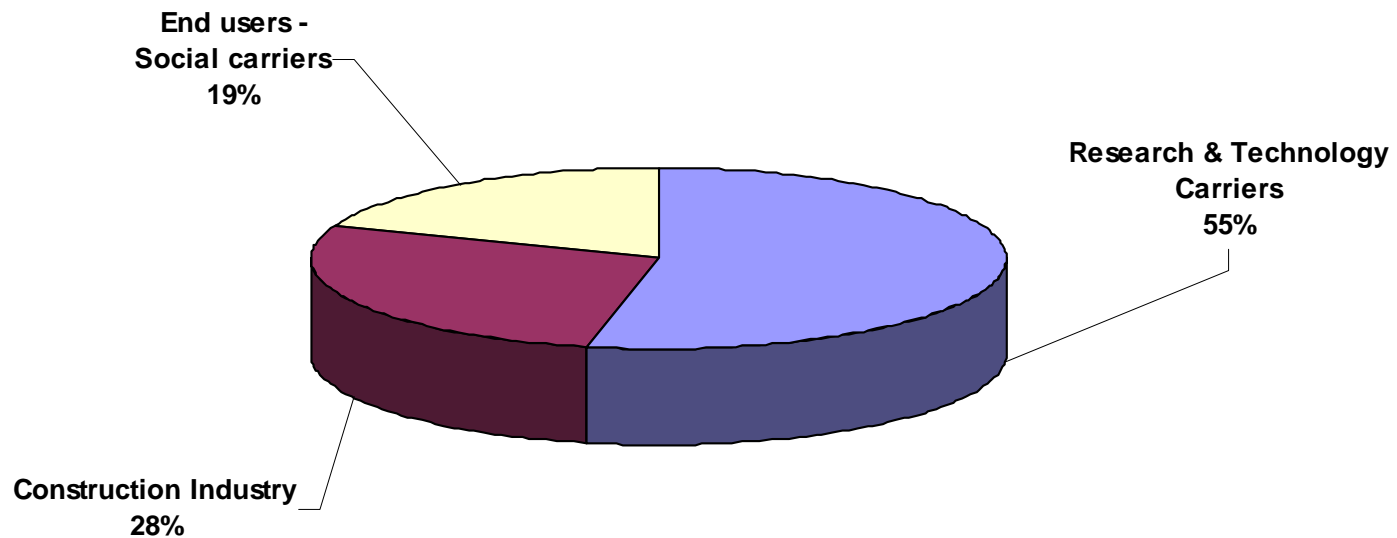
# The European Meeting on 21 May 2007 EUREKABUILD

## Has critical participation mass

<b>Research &amp; Technology Carriers</b>	<b>56</b>
<i>Universities</i>	<i>33</i>
<i>Research Institutes</i>	
<i>Technological Institutes</i>	<i>8</i>
<i>Technology Transfer</i>	<i>5</i>
<b>"Construction Industry"</b>	<b>29</b>
<i>Construction sector</i>	<i>11</i>
<i>Study Sector</i>	<i>11</i>
<i>Building materials industry</i>	<i>7</i>
<b>End Users - Social Carriers</b>	<b>20</b>
<i>Ministries - Public sector</i>	<i>7</i>
<i>Individual companies</i>	<i>3</i>
<i>Associations / Chambers etc.</i>	<i>10</i>

# EUREKABUILD Meeting on 21 May 2007

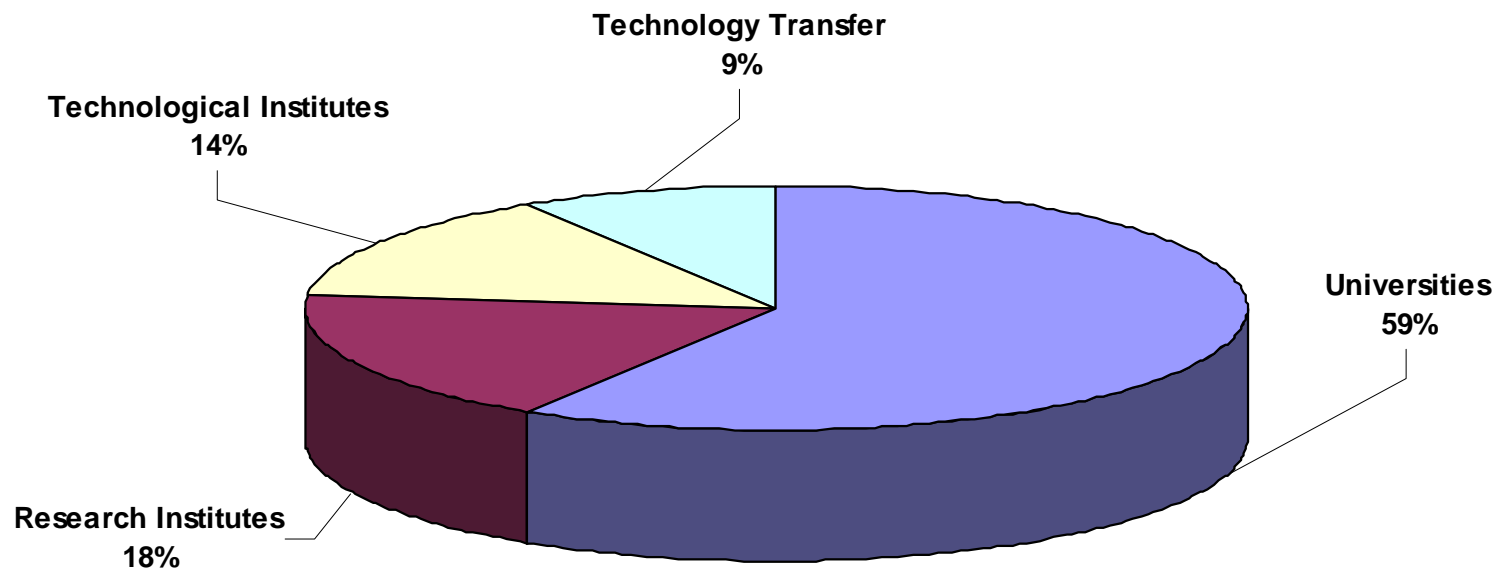
EurekaBuild Participants





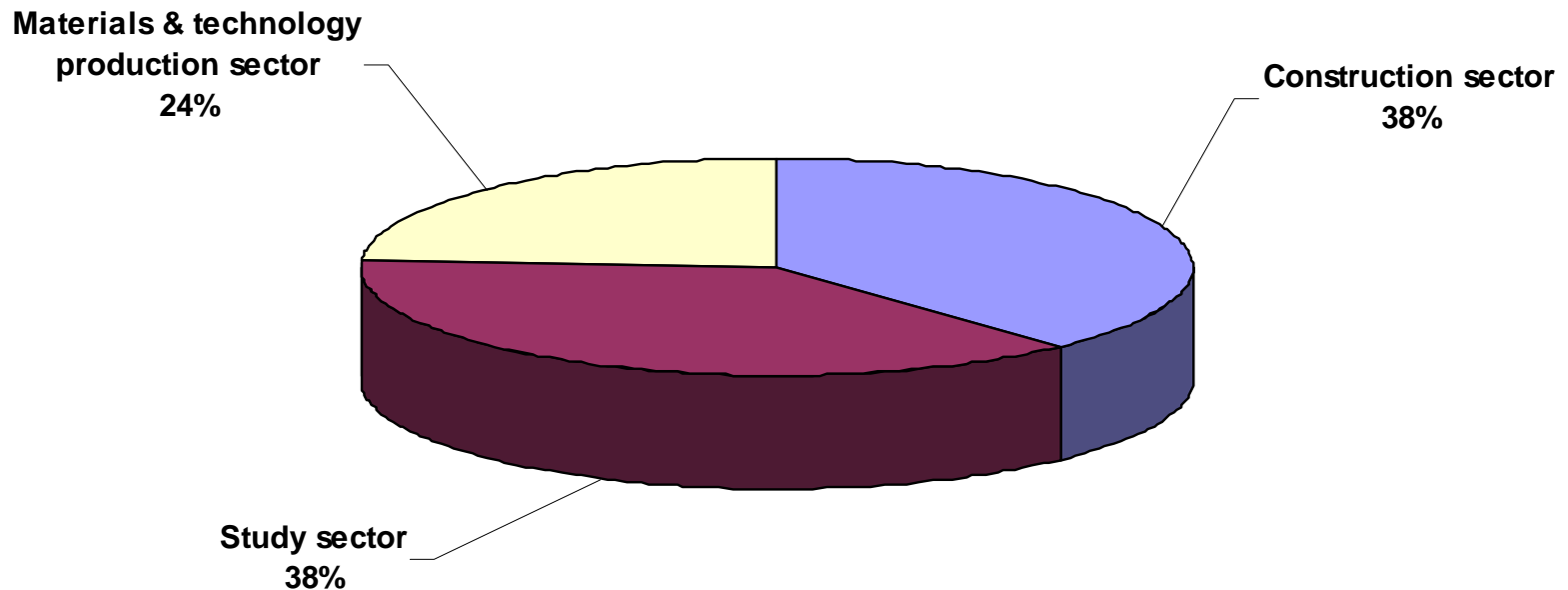
# EUREKABUILD Meeting on 21 May 2007

## Research & Technology Carriers



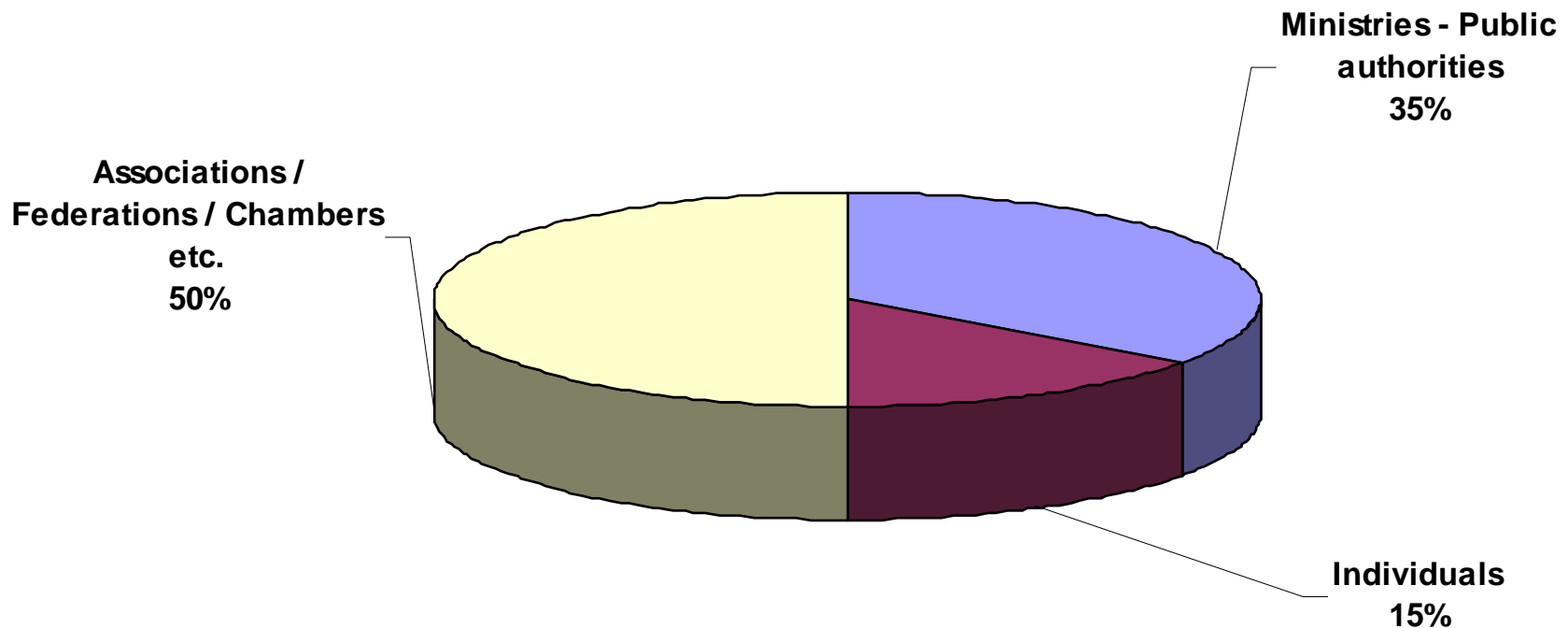
# EUREKABUILD Meeting on 21 May 2007

## Construction Industry



# EUREKABUILD Meeting on 21 May 2007

## End users - Social carriers



# Suggestions of HCTP to Ministry of Development / General Secretariat of Research & Technology

- It is obvious that such a participation will lead to consortiums creation that will submit proposals for funding
- The request to Min. Develop./ GSRT for funding policies of research priorities is:
  - Since the role of EUREKA is supplemental to the FP7 it should be funded with priority and with higher weight factors those proposals that are not sufficiently covered by FP7 and are crucial to our country such as:
    - ✓ *Sustainable construction*
    - ✓ *Cultural Heritage protection*

Towards Min. Development and GSRT the HCTP promotes the request of general institutional support, as indeed has been announced by:

- ✓ Minister of Development Mr. D. Sioufas
- ✓ Gen. Secr. Research & Technology, Prof. J. Tsoukalas

On October 2005 in the Technical Chamber of Greece the HCTP has been recognized as a National Platform:

- Presentation on GSRT website (as in the case of clothing, food and biofuels platforms)
- Continuous information for the representato of HCTP in European meetings of ECT and NCTPs
- Representation of HCTP by the National Representative (Brussels) in the Mirror Group, in coordination with the platform committee
- Support of its cunction by the "competitiveness' Program through funding of a technical support program to TCG (WG and multidisciplinary actions)

# The HCTP creates synergies planning meetings in cooperation with TCG

- «Greece - Cyprus Days», October, Athens, Mirroring of Greek Cypriot platform
- «Greece as the centre of Research, Technology and Innovation in South east Europe - Engineers in the foreground», June, Athens, in cooperation with Ministry of Development - GSRT
- «Sustainable Constructions and Protection of Cultural Heritage», 2008 in the framework of HELECO
- «Standards and quality control as means of promoting and implementing of sustainable construction», before the end of 2007, TCG, Athens

22 May, EurekaBuild Steering  
Committee Meeting, Athens

Welcome to Greece

The meeting will be open to the public