



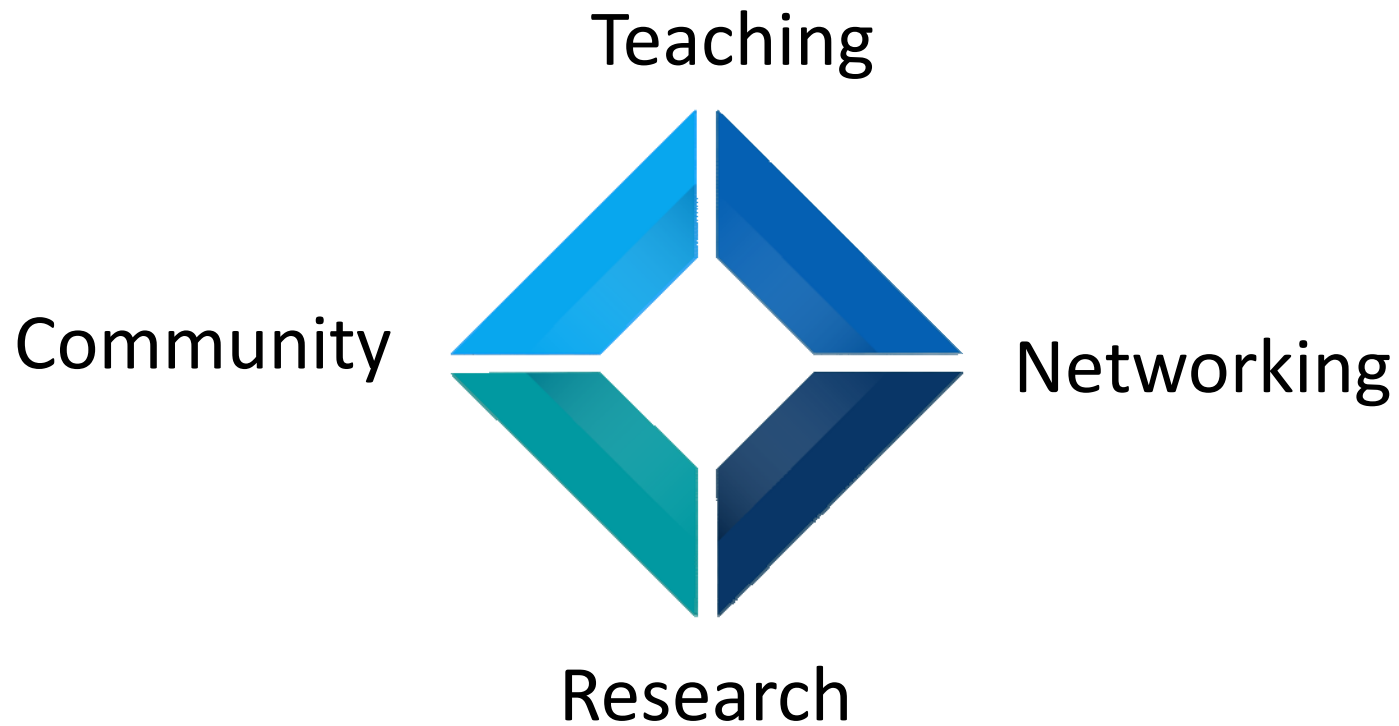
CESUR:

A concept of University

Luís Valadares Tavares, June 2016

1975!

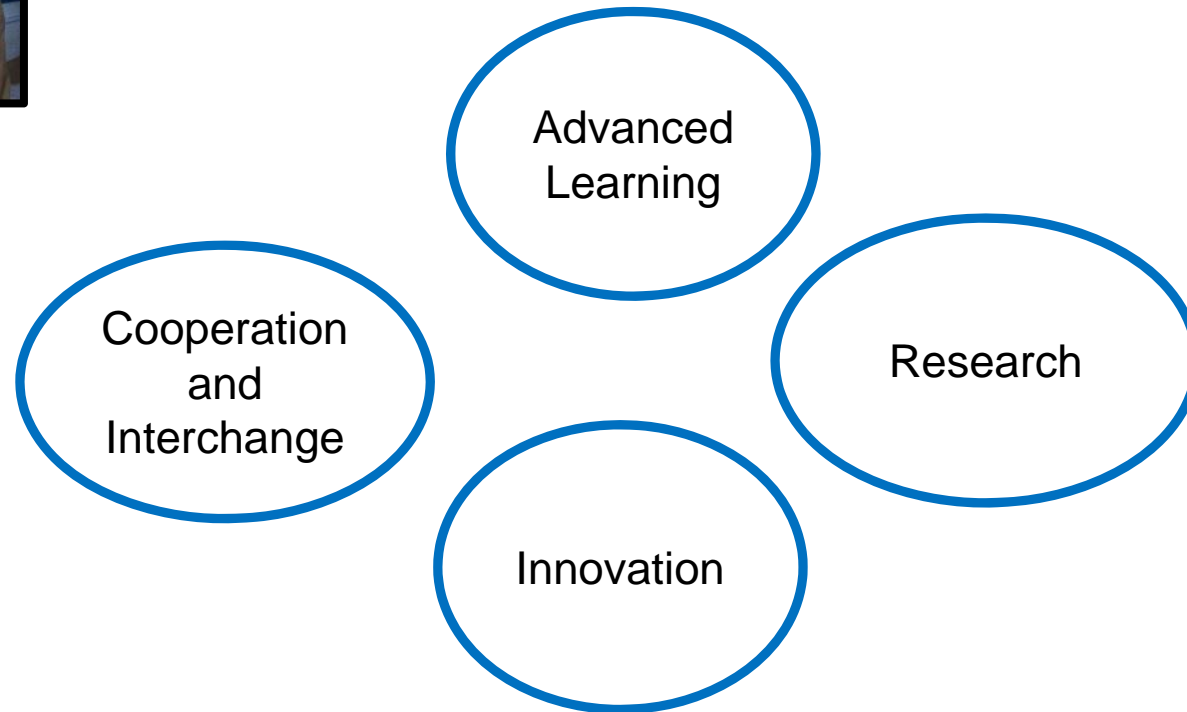
The Robbins Report (1963)



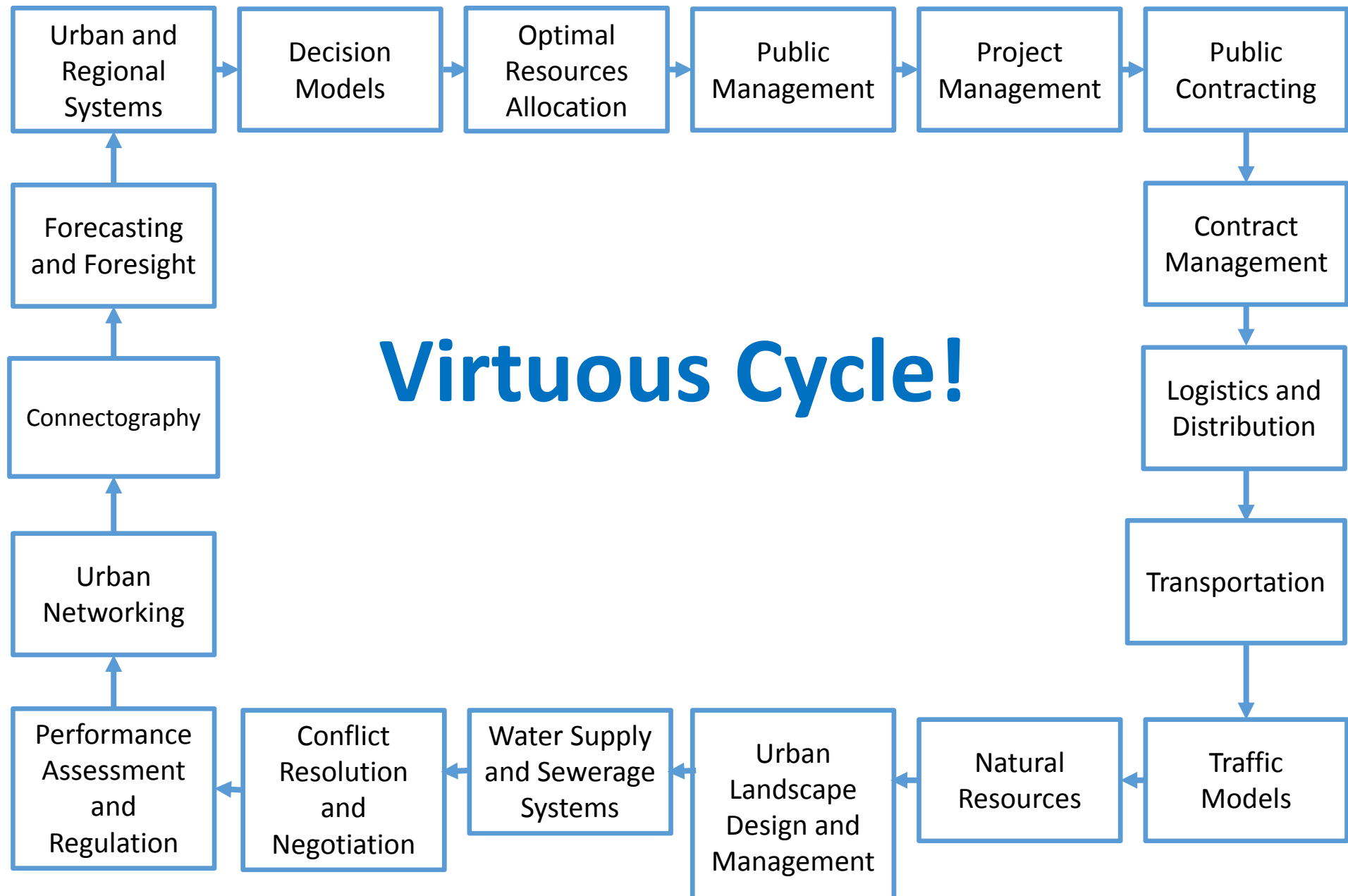


CESUR - Center for Urban and Regional Systems (1975)

M. Costa Lobo, L. Valadares Tavares, J. Pedro Tavares and A. Simões Lopes



Research Paradigm – Mode 2 , Gibbons, et al - Research





Which Research Morphologies?

University of Berkeley, California

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A photograph of laboratory glassware, including several blue-capped vials and a graduated cylinder, arranged on a red rack. The image is slightly blurred, focusing on the foreground.

Research overview

At Berkeley, we address the biggest challenges of the day to create a better world. From robotic legs to the origins of the universe, research at Berkeley crosses disciplines and illuminates new ideas.

IURD

INSTITUTE OF URBAN AND
REGIONAL DEVELOPMENT

Institute of Urban and Regional Development

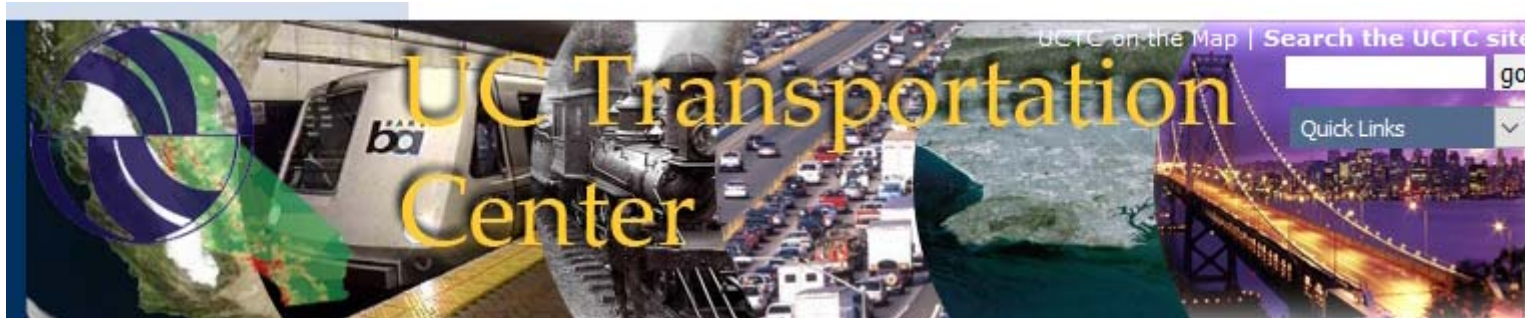
Research:

- Place & Mobility
- Urban Governance
- City Science
- Urban Environment
- Healthy Sciences
- Inclusive Cities

People:

11 Members

University of Berkeley, California



UC Transportation Center

Research:

- Environmental sustainability
- Economic competitiveness
- Livability

People:

- 10 Members
(University of Davis)
- 24 Members
(University of Berkeley)

University of Berkeley, California



Institute for Business Innovation

Research:


- Corporate Innovation
- Entrepreneurship
- Management and Technology
- Intellectual Capital

People:

17 Members

University of Berkeley, California

University of Waterloo, Canada


**UNIVERSITY OF
WATERLOO**

SEARCH »

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Three steps for creating innovations that matter

Waterloo user design expert speaks at the Waterloo Women: Ideas, Makers, Innovators Ideathon




VIDEO


1 in Canada, 25 in world
in QS Graduate Employability Ranking

ideas that change the world


LEARN ABOUT OUR




innovations



connections



impact



global view

CONRAD
BUSINESS, ENTREPRENEURSHIP AND TECHNOLOGY CENTRE

**CONRAD Business, Entrepreneurship and
Technology Centre**

Research:

- The entrepreneurial university
- High technology clusters
- Evaluation, financing, and valuation of technology and new ventures
- Innovation, productivity and performance
- Internationalization of technology-based ventures
- Interorganizational relations
- Negotiation and organizational behaviour
- Services marketing

People:

18 Members (8 professors)



Waterloo Institute for Complexity and Innovation

Research

- Alternatives to Conventional Growth
- Coupled Human-Environment Systems Theory
- Robustness of Complex Networks: Reaching Agreement Despite Stubborn and Malicious Adversaries
- Open-Architecture Problem Solving
- Comparative Threshold Behavior in Physical, Ecological, and Social Systems
- Vulnerabilities in Human-Environment systems: Tools for complex system analysis (Urban environments)

People

Affiliate Researchers of the
Univ. of Waterloo

22 members (**16** professors)

University of Waterloo, Canada

Technical University of Denmark



Technical University of Denmark

Search for text or person



EDUCATION

Programmes and Student Guide

RESEARCH

Departments and research areas

COLLABORATION

Consultancy and Industrial Collaboration

ABOUT DTU

Organization, campuses, press room

MAJOR THEME: SMART CITIES

1 / 4

Photo: Mikal Schlosser

NEWS
Read all news

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Private investor helped DTU idea take off

14
MAR

11 Million for research into cancer and T-cells

11
MAR

Smart cities



Engineering Systems

DTU Management Engineering

Engineering Systems Center

Research

- Interdisciplinary Design of Engineering Systems
- Management of Engineering Systems throughout their life cycle
- Aligning Business Strategy and Public Policy for Engineering Systems

People

12 members



Technology and Innovation Management
Department of Management Engineering

Technology and Innovation Management Center

Research

- Innovation
- Design and Entrepreneurship
- Human Factors
- Industrial Dynamics and Strategy

People

16 Professors

Karlsruhe Institute of Technology



Institute for Urban and Landscape Design

Landscape Architecture

Research

- Urban spaces
- Urban planning of the landscape
- Water and Coastal Landscapes

People

6 members

Institute for Urban and Landscape Design

International Planning and Urban Design

Research

- Urban Development in Russia/(post) socialist urbanism
- Metropolitan areas in Africa, Asia and the Americas/Strategic Planning
- Building culture / knowledge transfer

People

5 members

Institute of Operations Research

Discrete Optimization and Logistics

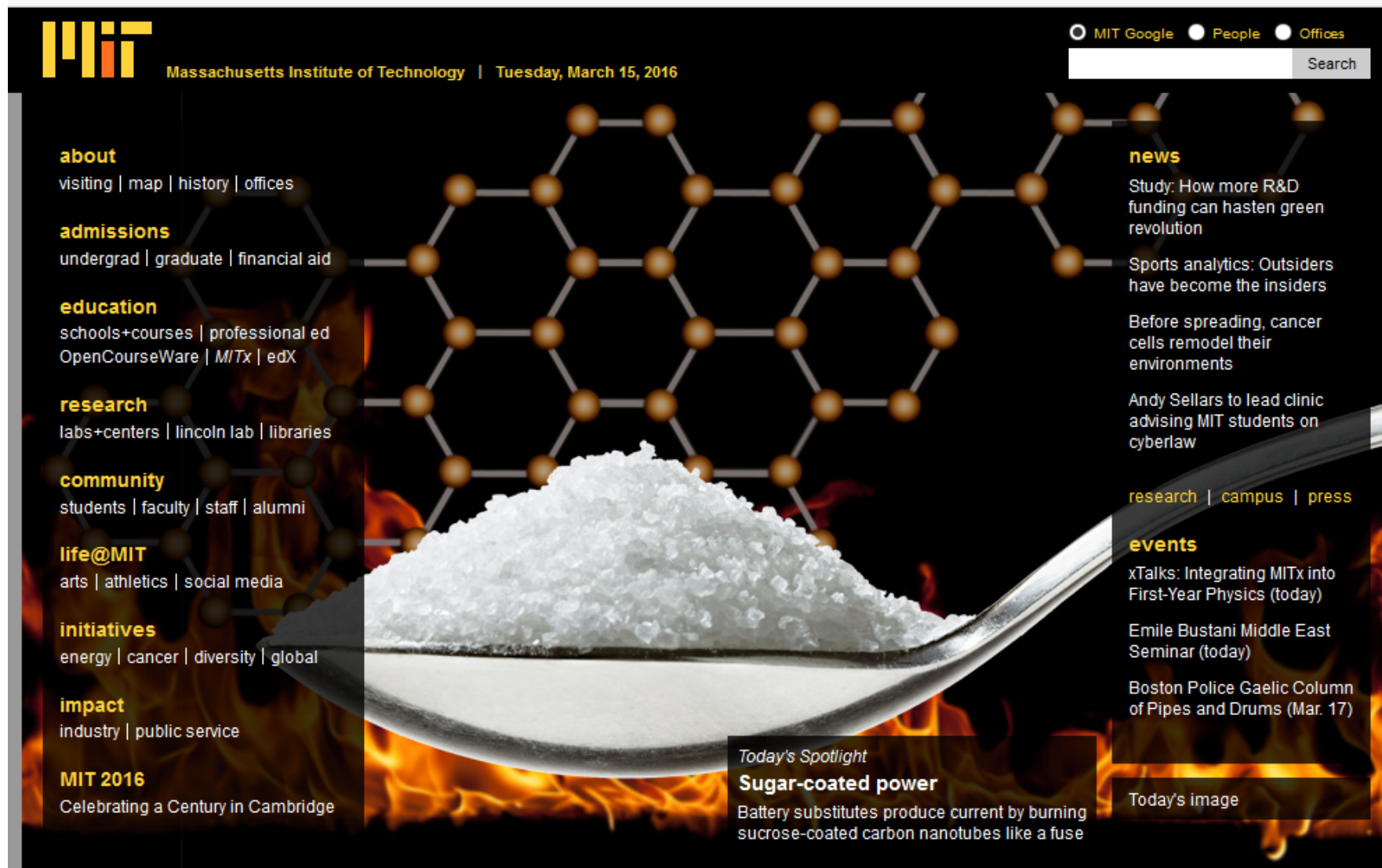
Research

- Facility Location
- Districting
- Health Care
- Online Optimization
- OR in steel industry

Academic Staff

9 members

MIT - Massachusetts Institute of Technology



MIT Massachusetts Institute of Technology | Tuesday, March 15, 2016

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energy | cancer | diversity | global

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industry | public service

MIT 2016
Celebrating a Century in Cambridge

news
Study: How more R&D funding can hasten green revolution
Sports analytics: Outsiders have become the insiders
Before spreading, cancer cells remodel their environments
Andy Sellars to lead clinic advising MIT students on cyberlaw

research | campus | press

events
xTalks: Integrating MITx into First-Year Physics (today)
Emile Bustani Middle East Seminar (today)
Boston Police Gaelic Column of Pipes and Drums (Mar. 17)

Today's Spotlight
Sugar-coated power
Battery substitutes produce current by burning sucrose-coated carbon nanotubes like a fuse

Today's image

MIT - Massachusetts Institute of Technology

Interdisciplinary Research

2016

MIT FACTS

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SEARCH

GO

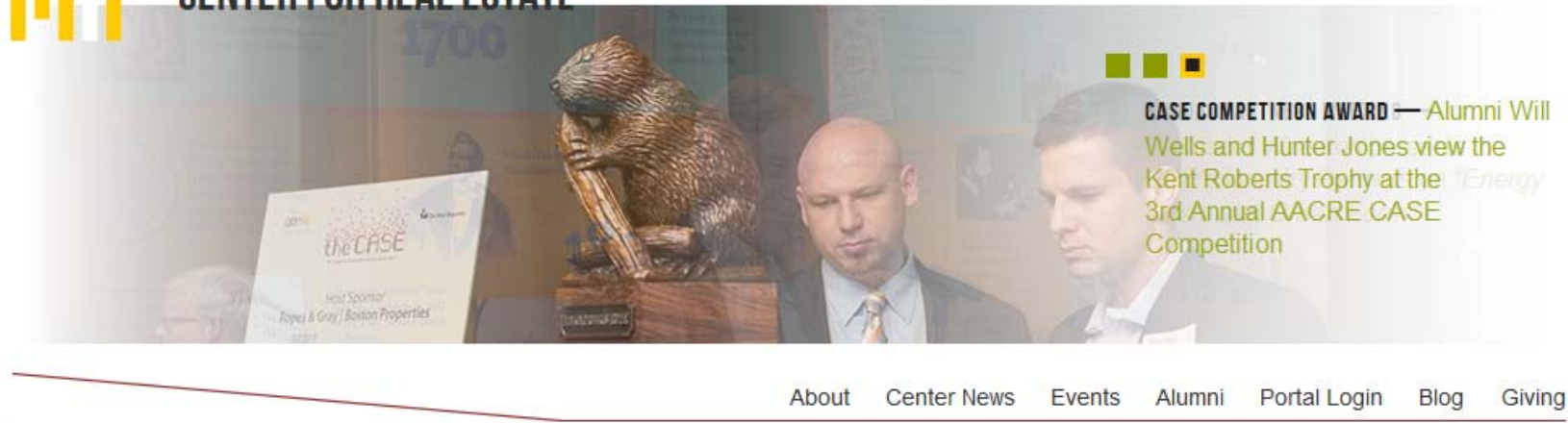
INTERDISCIPLINARY CENTERS, LABS, & PROGRAMS

Today's researchers tackle complex problems that cannot be resolved within a single academic discipline—and MIT constantly creates and evolves academic organizations that foster interdisciplinary work.

- Research
- Research Expenditures
- Interdisciplinary Centers, Labs, & Programs
- Research Alliances

- Abdul Latif Jameel Poverty Action Lab
- Abdul Latif Jameel World Water and Food Security Lab
- Center for Archaeological Materials
- Center for Collective Intelligence
- Center for Computational Engineering
- Center for Computational Research in Economics and Management Science
- Center for Energy and Environmental Policy Research
- Center for Environmental Health Sciences
- Center for Global Change Science
- Center for International Studies
- Center for Materials Science and Engineering
- Center for Real Estate
- Center for Transportation and Logistics
- Clinical Research Center
- Computer Science and Artificial Intelligence Laboratory
- Concrete Sustainability Hub
- Deshpande Center for Technological Innovation
- Division of Comparative Medicine
- Francis Bitter Magnet Laboratory
- Haystack Observatory
- Initiative on the Digital Economy
- Institute for Medical Engineering and Science
- Institute for Data, Systems, and Society
- Institute for Soldier Nanotechnologies
- Institute for Work and Employment Research
- Joint Program on the Science and Policy of Global Change

- Knight Science Journalism Program
- Koch Institute for Integrative Cancer Research
- Laboratory for Financial Engineering
- Laboratory for Information and Decision Systems
- Laboratory for Manufacturing and Productivity
- Laboratory for Nuclear Science
- Legatum Center for Development and Entrepreneurship
- Lincoln Laboratory
- Martin Trust Center for MIT Entrepreneurship
- Materials Processing Center
- McGovern Institute for Brain Research
- Microsystems Technology Laboratories
- MIT Center for Art, Science, and Technology
- MIT Energy Initiative
- MIT Environmental Solutions Initiative**
- MIT Innovation Initiative
- MIT Kavli Institute for Astrophysics and Space Research
- MIT Media Lab
- MIT Portugal Program
- MIT Professional Education
- MIT Program in Art, Culture, and Technology
- MIT Sea Grant College Program
- Nuclear Reactor Laboratory
- Operations Research Center
- Picower Institute for Learning and Memory
- Plasma Science and Fusion Center
- Research Laboratory of Electronics
- Simons Center for the Social Brain
- Singapore-MIT Alliance
- Singapore-MIT Alliance for Research and Technology
- Sociotechnical Systems Research Center
- Technology and Development Program
- Transportation@MIT
- Women's and Gender Studies Program



Center for Real Estate

Research

Our pioneering research investigates the real estate transaction from initial concept to market reality, providing breakthrough knowledge to help organizations capitalize on today's dynamic markets and technologies.

People:

Faculty

15 members (**5** professors)



Initiative on the Digital Economy



Initiative on the Digital Economy

Research

- Productivity, Employment, and Inequality New Digital Business Models
- Big Data
- Social Analytics

IDE Team

16 professors

MIT - Massachusetts Institute of Technology



LABORATORY FOR INFORMATION & DECISION SYSTEMS

Laboratory for Information and Decision Systems

Research

- Systems, networks, and control
- Communications, transmission of information, and networks
- Inference and statistical data processing

Faculty/PI

21 professors

Deshpande Center for Technological Information

Strategic Research Areas

- Sustainable Energy Systems
- Water Advanced Technologies and Environmental Research
- Microsystems
- Smart Systems

People

11 members

Center for Transportation and Logistics

What we accomplish

- Transform the way urban planners and officials think about transportation systems
- Set the foundation for current global practice in airline scheduling and flight operations
- Develop more carbon-efficient supply chains to help organizations reduce their environmental footprint

Faculty and Teaching Staff

12 professors

Center for Advanced Urbanism

What we accomplish

- Climate + Urbanism
- Environment + Urbanism
- Global + Urbanism
- Technology + Urbanism

Faculty and Teaching Staff

31 professors

Imperial College London

Imperial College
London



Bioenergy crops are not a risk to food production, says a new report



Higher intake of whole grains associated with reduced risk of diseases and death

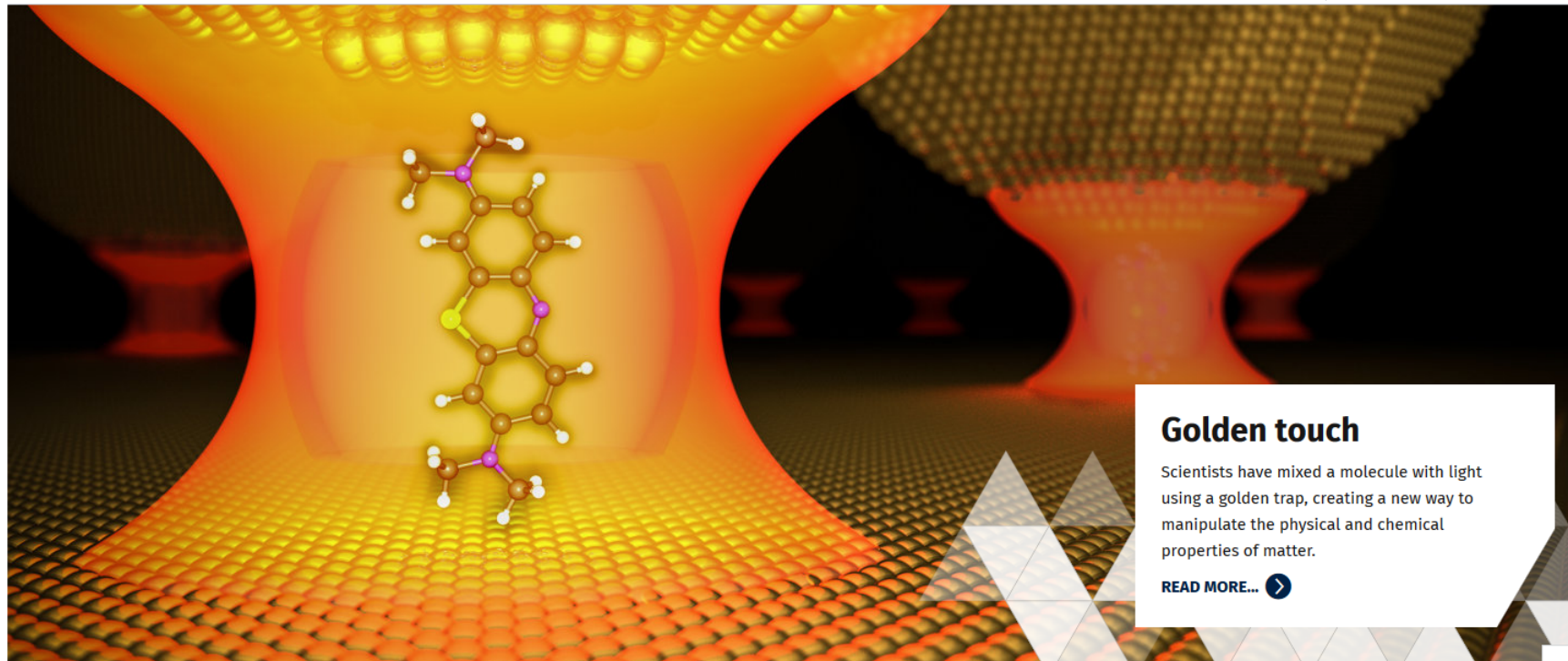


Start-up supporters and aspiring entrepreneurs meet at LaunchPad Day 2016

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Golden touch

Scientists have mixed a molecule with light using a golden trap, creating a new way to manipulate the physical and chemical properties of matter.

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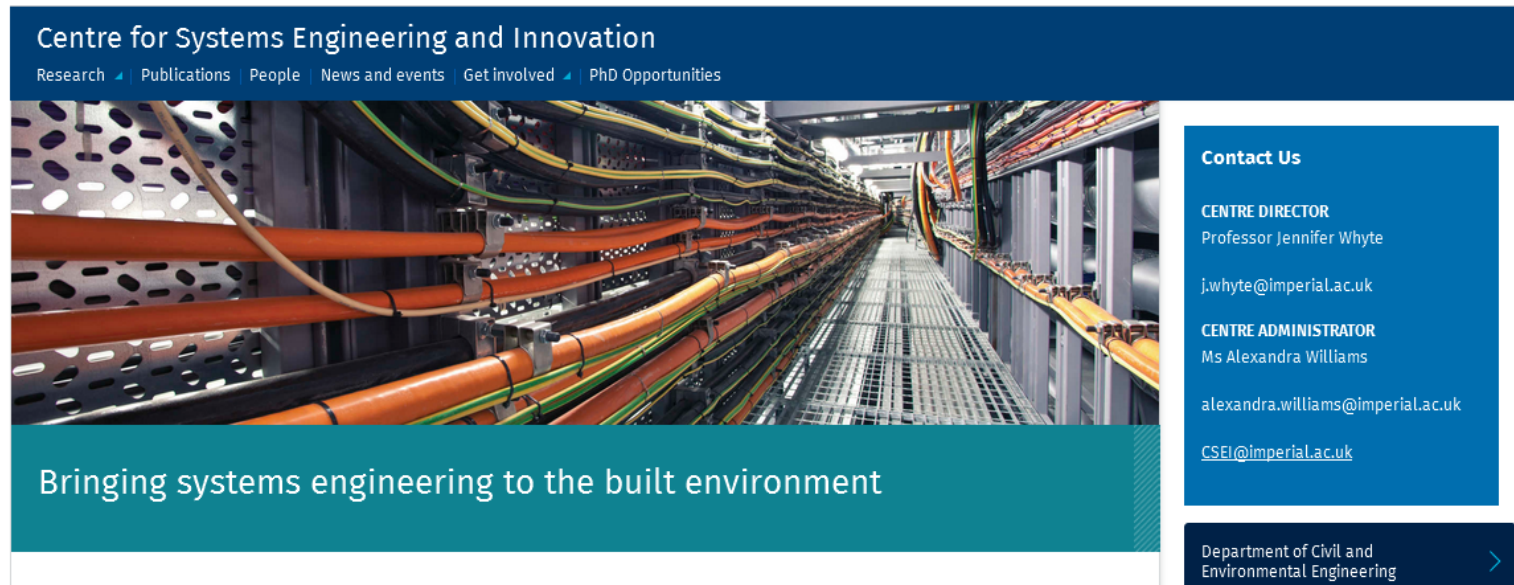
Research

- Railway and Transport Strategy Centre
- Imperial College Engineering Geomatics Group
- Lloyd's Register Foundation Transport Risk Management Centre
- Port Operations Research and Technology Centre
- Transport and Environmental Analysis Group

Transport Academic and Teaching Staff

9 professors

Imperial College London



Center for Systems Engineering and Innovation

Research

- Systems design and optimization for Design for Manufacture and Assembly
- Visualization of complex engineering projects
- Delivering for value across the infrastructure life-cycle

People

10 members

Imperial College London



Research

Digital City Exchange seeks to find innovative solutions to optimise the use and planning of cities.

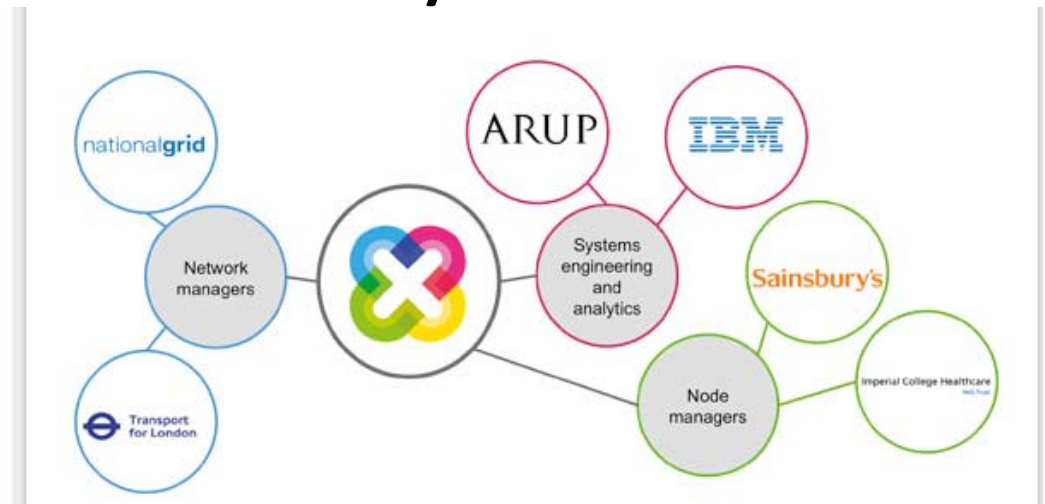
- Managing Peak Load
- Harnessing Disparate Data Sets
- Service Innovation

Imperial College London

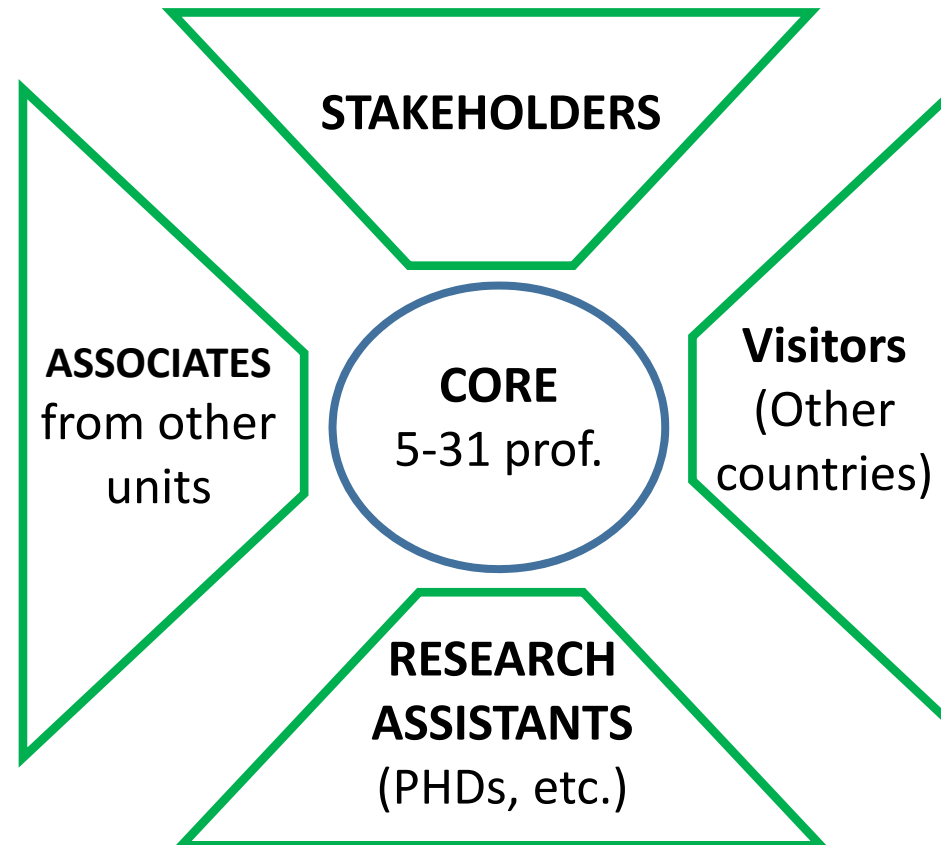
Investigators

12 members

Industry Partners



Major Model



Major Challenges

1. FOCUS

2. BRAND

3. LINK

4. STAKEHOLDERS

5. RATING