

EUTRAIN FINAL CONFERENCE

Human Resources and Facilitating Networking

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1. INTRODUCTION

1.1 Objectives

- This theme is relevant?
- The different problems
- To suggest ways to improve and sort out problems

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1.2 Scope

From my 45 years of experience in Ibero America

1.3 Contents

- Relevance of the problem
- Different Problems
- Suggestions

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2. Is it relevant?

2.1 No serious research without trained researchers

2.2 It is not enough to have good research in developed countries

2.3 The market for research to the future is enormous

2.4 Well trained and educated native counterparts are needed to sell good projects

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2.5 The human resources are crucial for an international cooperation

2.6 Networking is necessary for an international community of researchers

2.7 We need new ways of doing networks: we are in the XXI century

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3. Different Problems

3.1 Human resources

3.1.1 Three different type of countries:

- Developed in terms of transport research (USA, Canada, Australia and some EU countries)

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- Emerging countries (Some European, Asia, Afrika and Iberoamerican countries) where research is increasing and reaching respectable degrees of development
- The rest of the world (most countries) where very little is done and transport does not matter for the moment

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3.1.2 Different countries -> different problems

- Developed : a transport education centred in their own problems (unable to understand problems in other countries)
- Emerging: not enough and in some countries lack of resources for transport research
- Rest of the world: lack of human resources in transport.

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3.2 Networking

- Cooperation North- South poor
- Cooperation South- South just beginning, only germinal
- We know amongst developed and emerging countries researchers through congresses and Journals.
- We ignore on time many advances, because Journals publishing is a slow process.

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4. Some suggestions

4.1 Joint Research

- Funds for North –South cooperation (developed with emerging countries)
- In emerging countries there are good researchers, and cheaper. Great projects could be done with smaller budgets
- Projects principally between two countries. Multilateral projects are difficult to run but not impossible

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4.2 Training of Human Resources

- M.Sc and Ph.D (preferable) in developed and emerging countries programs.
- Emerging countries and developed countries may set up joint programmes (more attractive and cheaper)
- Some emerging countries programmes may help to new programmes in countries where they are just starting.

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- Example: our Transport Engineering group of the Catholic University of Chile has helped groups in Colombia, Paraguay, and Ecuador. Also we send professors to give intensive courses in Spain, Mexico, Brazil and Argentina.

- This is a slow process and must be done carefully, fast but with care-> eile mit weile.

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4.3 Networking

- EUTRAIN leading an Internet Page: working papers, possibilities of Joint Research Projects.
- To set up an International WEB Journal, including not only European and USA collaborators and papers → The “EEJ”

The ELECTRONIC EUTRAIN JOURNAL

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- If the Journal is made in Europe or USA could be expensive, but in Iberoamerica could be done much cheaper.
- The inclusion and engagement of young researchers is crucial
- Governments of Developed and Emerging countries must collaborate.

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Thanks