



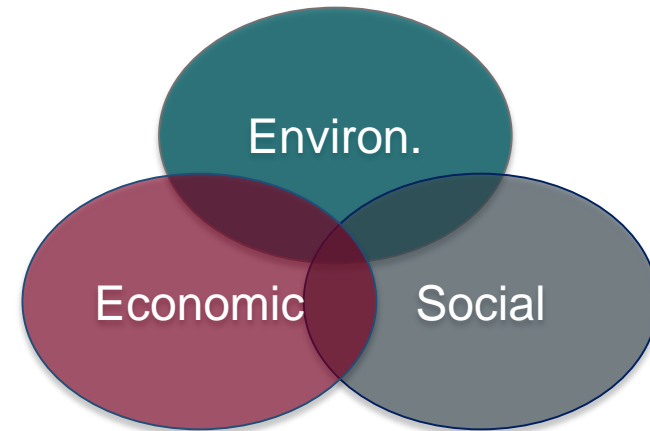
EIDEIC I. Programa de Doctorado en Ingeniería Civil

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Introduction

- **Sustainability** concept is globally widespread
- Construction industry needs to move into sustainability
- **Environmental aspects** have to be considered since design project phases



↓ **Synergies generation !!**

Existing methodologies can help with this:

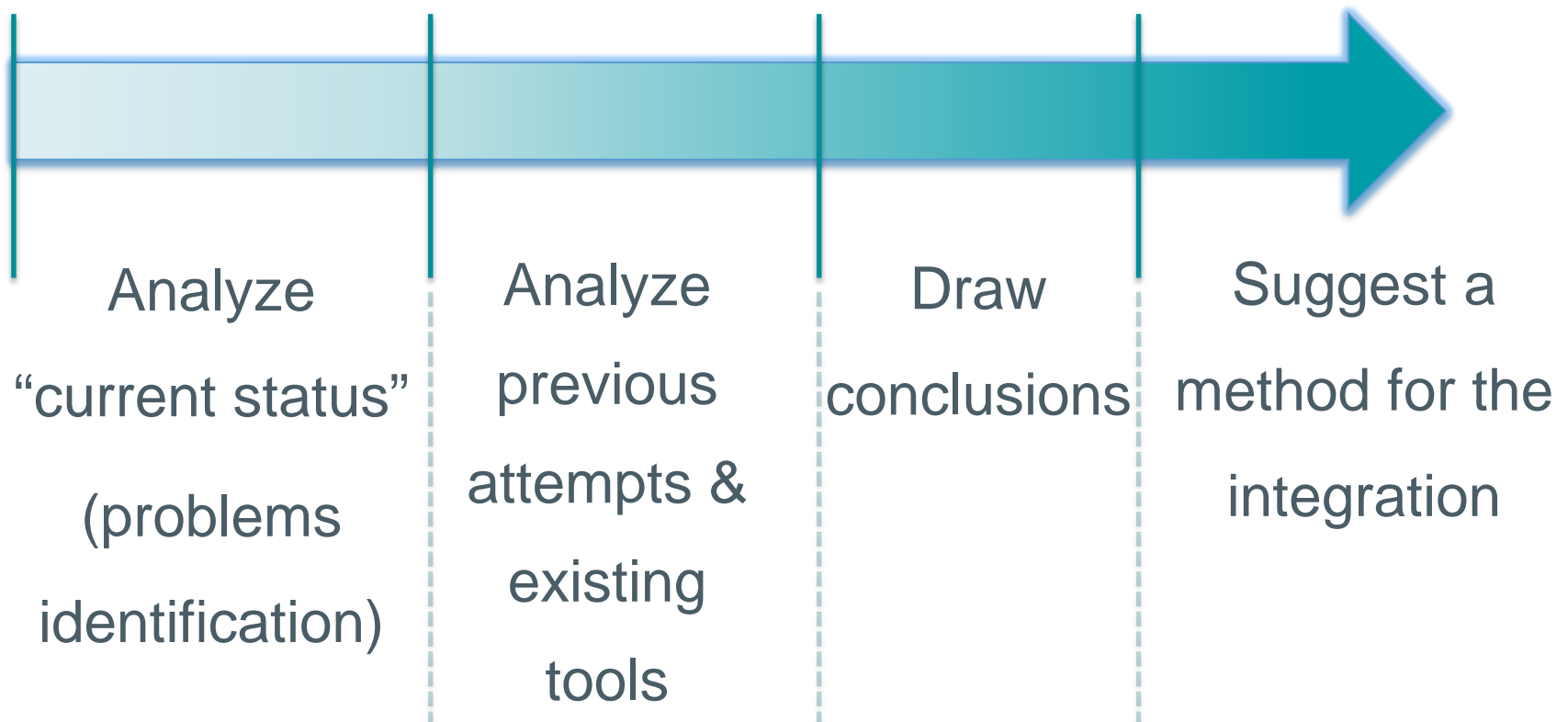
Building Information Modeling (BIM) + Life Cycle Assessment (LCA)

Aims and objectives

- Efficient and automatic/semi-automatic link between BIM model and environmental information
- Present environmental information as clear as possible
- BIM model as the main source of information
- Enable designers to have a direct access to the environmental information

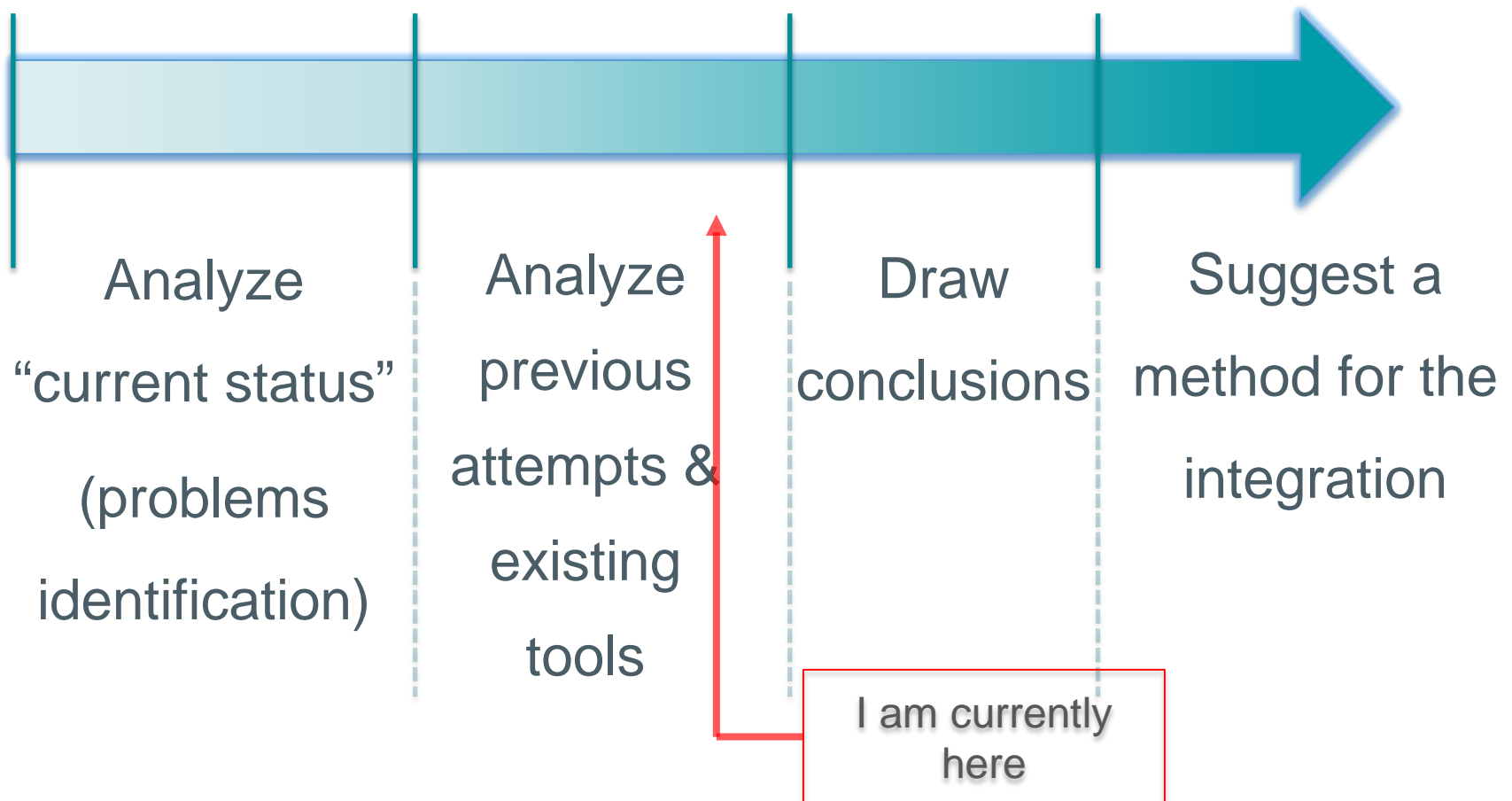
Action plan

- Planned tasks for the first year:



Action plan

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Strengths & Weaknesses

Strengths

- Start out from a theoretical analysis of the existing needs and previous attempts: **benchmarking approach**
- Similar background to the one of the addressed audience: helps to **understand what they need**

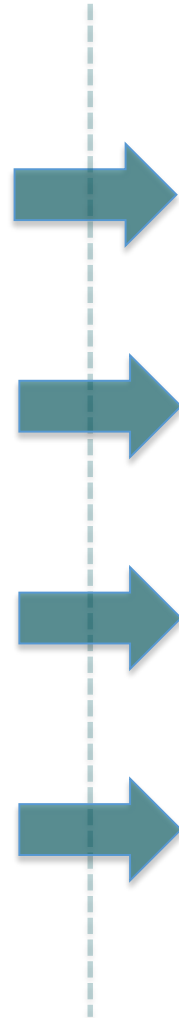
Weaknesses

- Lack of programming background: hinders the development of the sought link
- Lack of expertise in the environmental field: requires an additional effort to reach the needed level of expertise

Additional required skills

Additional required skills

- Expertise in BIM field
- Deeper knowledge in the environmental field
- Complementary knowledge in sustainable construction
- Deeper knowledge in the principles of academic research



How to get them

- Selected bibliography & courses when needed
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- Courses

Summary of the DAD

Courses attended

- Programa de formación transversal EDUC. Curso básico sobre las técnicas de presentación del trabajo científico
- “Introduction to Sustainable Construction”

Workshops attended

- “Gute wissenschaftliche Praxis als Kompass im forschungsalldag”
- “Von der Idee zum Projekt – erfolgreiche Forschungsanträge stellen“

Summary of the DAD

Participation in conferences

- “2nd International Conference on Civil and Building Engineering Informatics (ICCBEI 2015)” (Tokyo, Japan)
- “2015 ASCE International Workshop on Computing in Civil Engineering” (Austin, Texas)
- “The Fourth International Conference on Civil, Structural and Environmental Engineering Computing” (Prague, Czech Republic)

Summary of the DAD

Conferences attended

- “EUBIM 2015. BIM International” (Valencia, Spain)

Other activities

- Lectures assistance in the module “International Consulting” of the master program at THM
- Assistance in the supervision of master final thesis of the “Master in European Construction Engineering”

Thank you for your attention

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