The marriage of doctoral dissertation and practical development: How to reach a happy end?

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IT evolution

Diagram:

- Requirements Analysis
- Evaluation
- Development

The diagram illustrates the iterative process of IT evolution, emphasizing requirements analysis, evaluation, and development, indicating a cyclical flow.
IT–related research life cycle
Collaborative development: the marriage of research and practical development
Requirements analysis

Goals for practitioners

• identifying and understanding problems, needs and constraints for practical improvements in the community
• activating communication in the community
• improving motivation in the community

Goals for researchers

• extending knowledge about needs and constraints for IT solutions
• understanding the domain
• discovering and identifying meaningful research questions
• testing requirements analysis methods
Development

Goals for practitioners

• solving practical problems in the community
• utilizing new technologies
• developing best practices
• finding models for future development

Goals for researchers

• exploring ideas
• demonstrating feasibility of new ideas and theories
• extending knowledge about new kinds of IT solutions
• gaining experience for future development solutions
• testing development methods
Evaluation

Goals for practitioners

• determining the quality of solutions
• identifying further improvement needs
• supporting motivation in the community

Goals for researchers

• extending knowledge about usefulness of solutions
• gaining experience for future development solutions
• discovering further research areas
• testing evaluation methods
Theory building

Goals for practitioners

• finding useful concepts, methods, and tools to solve problems in the community
• understanding the complex domain

Goals for researchers

• extending knowledge about concepts, models, and methods useful in research and practice
See the difference.

Make it end.