Fostering Academic Research

Prof. Dr. Mathias Weske

Business Process Technology

Greenland

Iceland
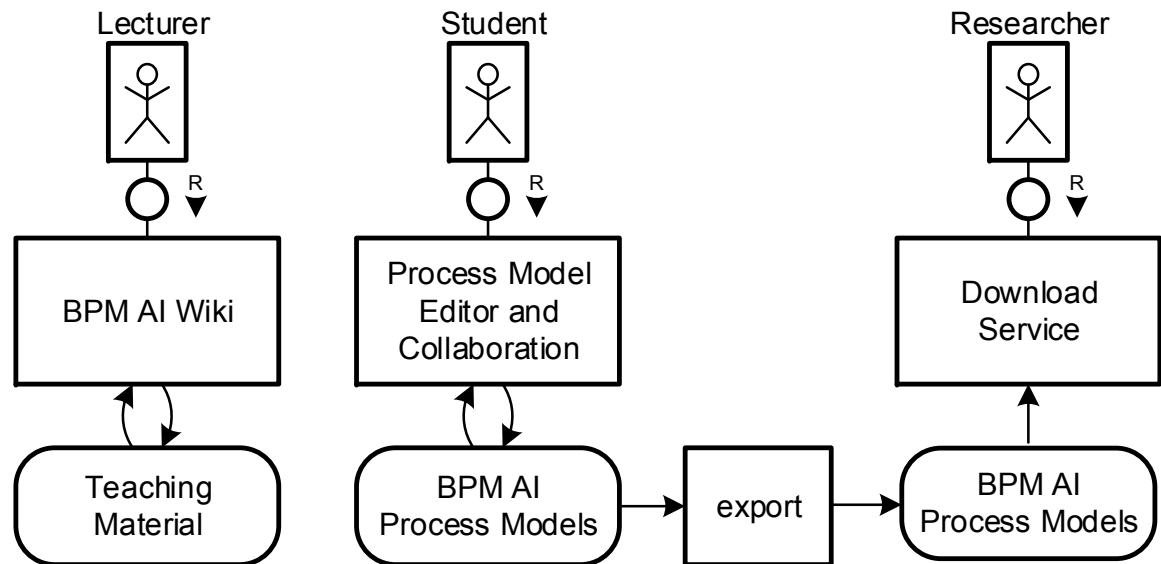
Canada

United States

México

Venezuela
Colombia

Perú
Brasil
Brazil
Bolivia
Chile
Argentina

North Atlantic Ocean

South Atlantic Ocean

United Kingdom
Norge Norway
Sverige Sweden
Suomi Finland
Россия Russia

France
España Spain
Italia Italy
Deutschland Germany
Polska Poland
Україна Ukraine

Mauritania
Mali
Niger
Chad
Nigeria
Algeria
Libya
Egypt
Sudan
DR Congo
Kenya
Tanzania
Ethiopia
Angola
Namibia
Botswana
Madagascar
South Africa

Türkiye Turkey
Iraq
Iran
Saudi Arabia
Afghanistan
Pakistan
Kazakhstan
Mongolia
China
India
Thailand
中国
대한민국 S Korea
日本 Japan

Indonesia
Papua New Guinea
Australia
New Zealand

Indian Ocean

STEVENS Institute of Technology

TU/e

Universität Stuttgart

HPI Hasso Plattner Institut

SIGNAVIO collaborative process design

WU WIRTSCHAFTS UNIVERSITÄT WIEN UNIVERSITY OF ECONOMICS AND BUSINESS

QUT

The BPM Academic Initiative Offers

Education

- comprehensive teaching material

  □ by the academic partners

- professional web-based model editor and collaboration platform
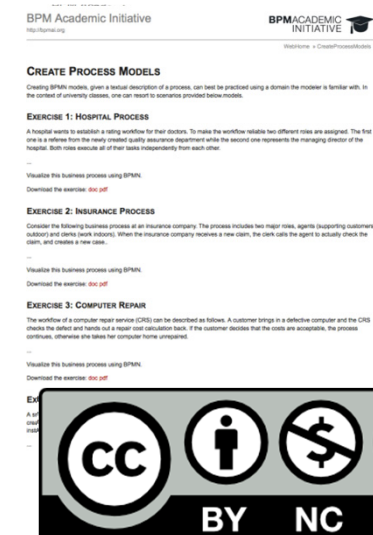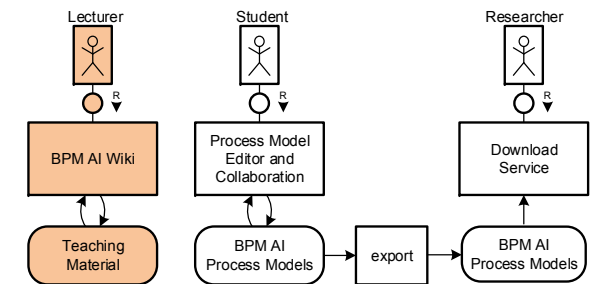
  □ by Signavio

Research

- large collection of models created by users of the platform

Teaching Material

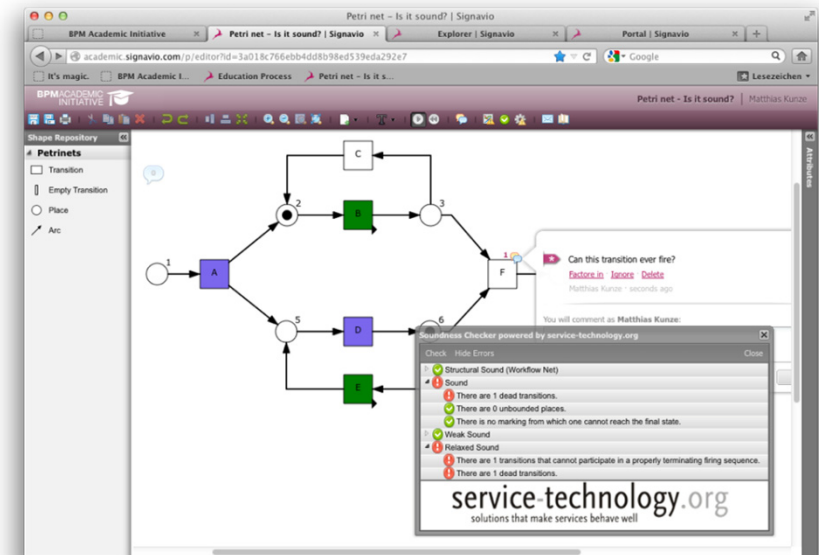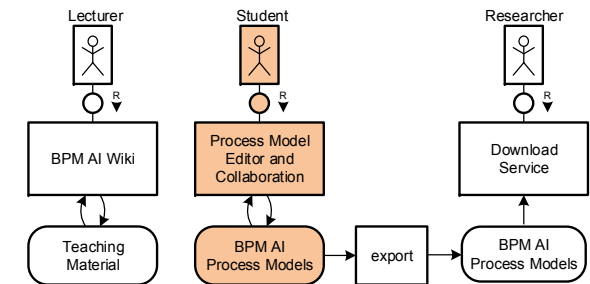Textbooks on BPM are available, yet mastering a subject requires practice and exercise.

- comprehensive collection of assignments in the field of BPM, e.g.,

  □ understand and create process models

  □ analysis of process models

- contributions from academic partners of the initiative

  □ organized by topic, searchable

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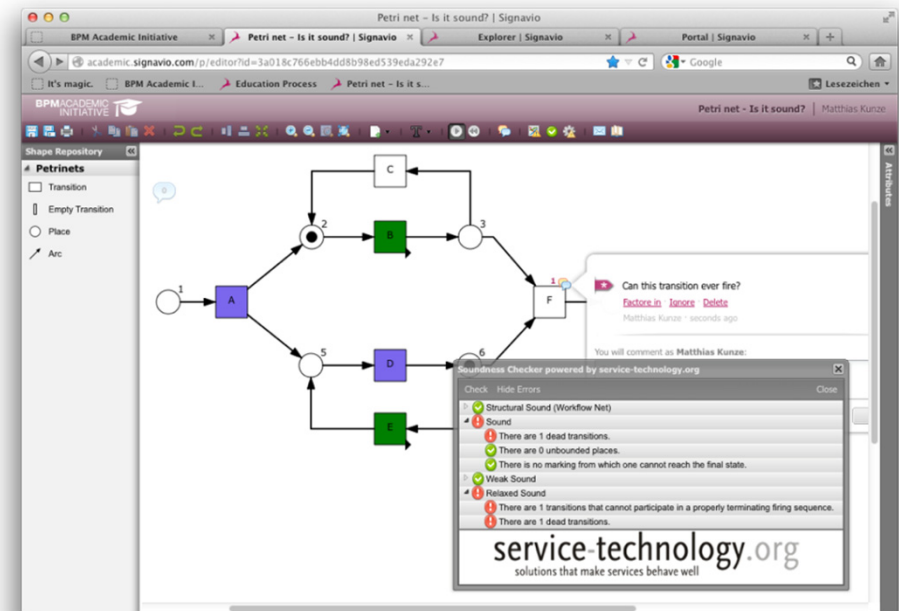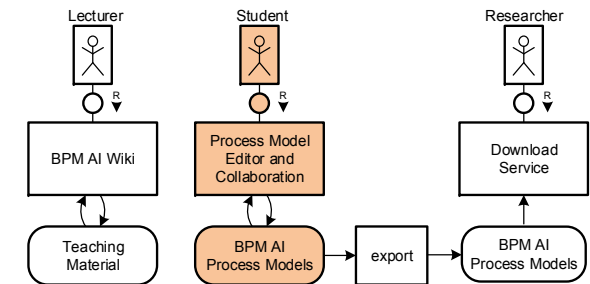
Process Model Editor

Academics can use the Signavio process model editor free of charge.

- web-based, no installation required

- supports various process modeling notations

- incorporates scientific analysis tools, e.g.,

  - soundness checking,

  - process model structuring

- provides collaboration features

  - sharing of models

  - version history

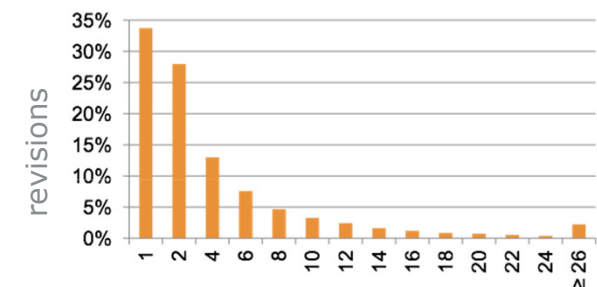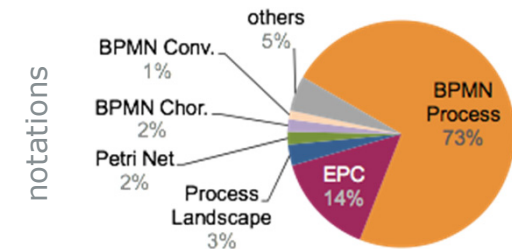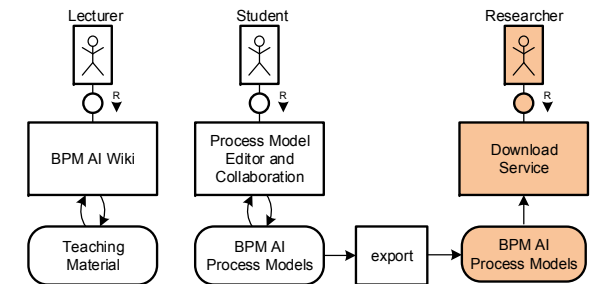 - discussing and feedback

BPM Academic Initiative
Numbers

- 25000 registered users

- 13500 work spaces

- 110000 BPMN process diagrams

- 3000 Chor diagrams

- 25000 EPCs

- 5600 UML class diagrams

- 2700 Use case diagrams

- 7500 Process landscapes

Models Available for Empirical Research

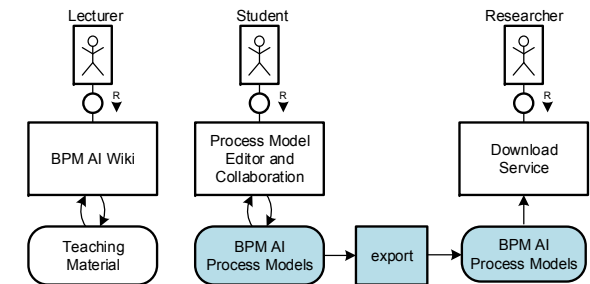Lecturers and students have created thousands of models.

- we make them available for empirical research

  □ various modeling languages

  □ diverse in size (number of elements)

  □ comprise complete revision history

- developed a download portal for the collection

  □ explore and filter models for download

  □ open-source analysis platform for models

The Small Print

Upon registering for a free account of the process model editor, users agree to provide their models for empirical research.

- users can choose their models to be anonymized

- periodic update of model collection from academic process models

◉ I agree that all models I create using this platform can be made available for research purposes.

○ I agree that anonymized versions of all models I create using this platform can be made available for research purposes.
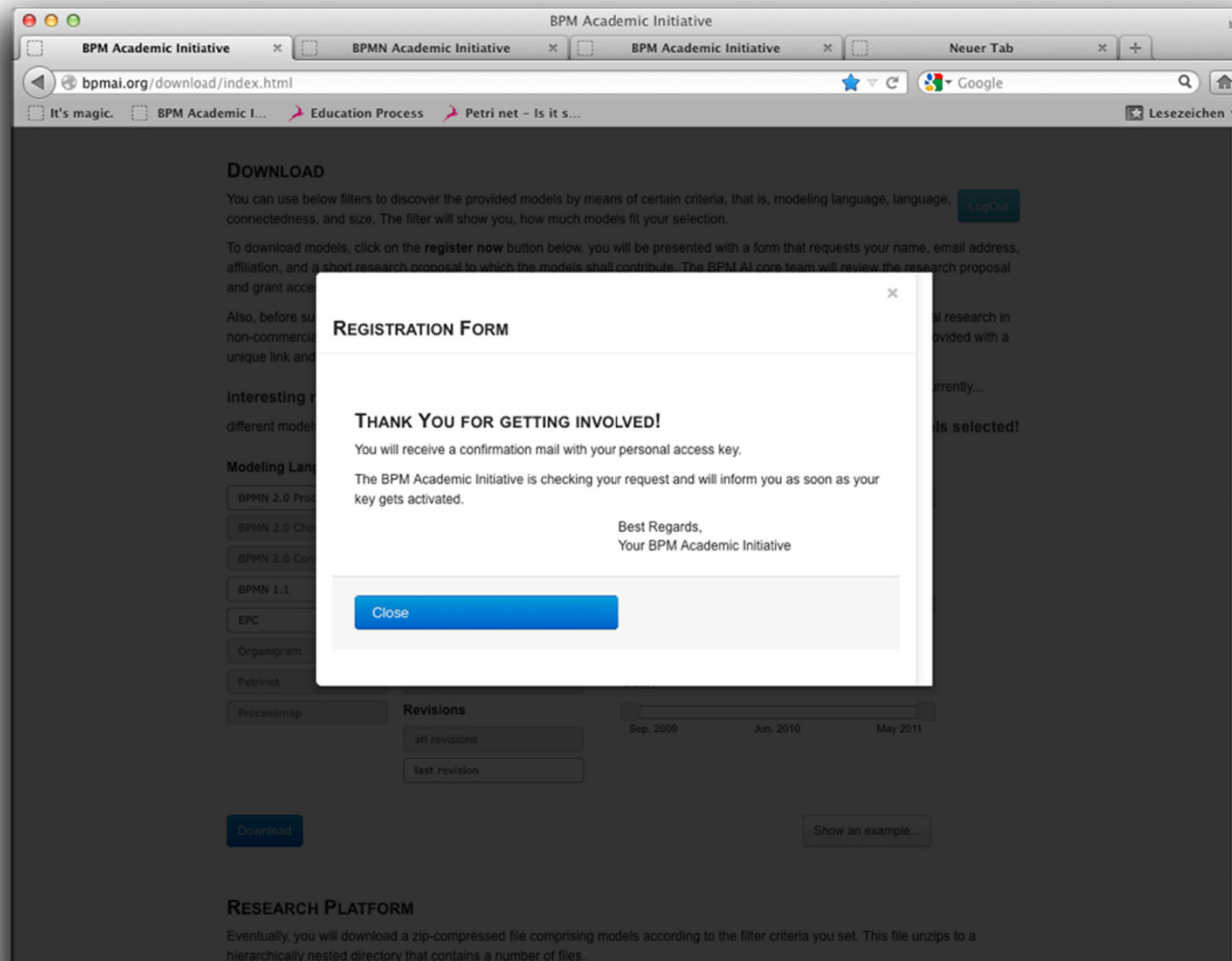
Model Availability

We set up a download portal, where models can be obtained from

- filter among several criteria
  - modeling language
  - language of text
  - quality, size, date
- browse examples
- download version history as well

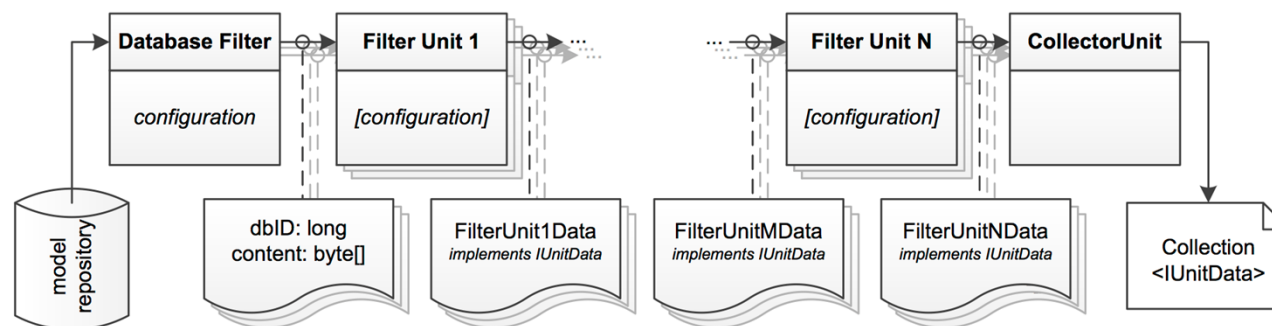- users must provide a research proposal and agree to license terms: non-commercial use in academic context only!

Research Proposal

Tool Set for Empirical Research

Analysis of process model collections requires many steps:

- load models; parse, transform, and extract information; execute the actual analysis

  - PromniCat – open source analysis

    simple & efficient pipes-and-filter architecture

  - jBPT – open source library for the formal analysis of business process models

Conclusions

- BPMAI is a successful model (!) regarding education in BPM

  - Availability of modeling tool

  - Availability of teaching material

- Interest in empirical research platform could be higher