ITS.ML

GEFÖRDERT VOM
Bundesministerium für Bildung und Forschung

DLR Projektträger

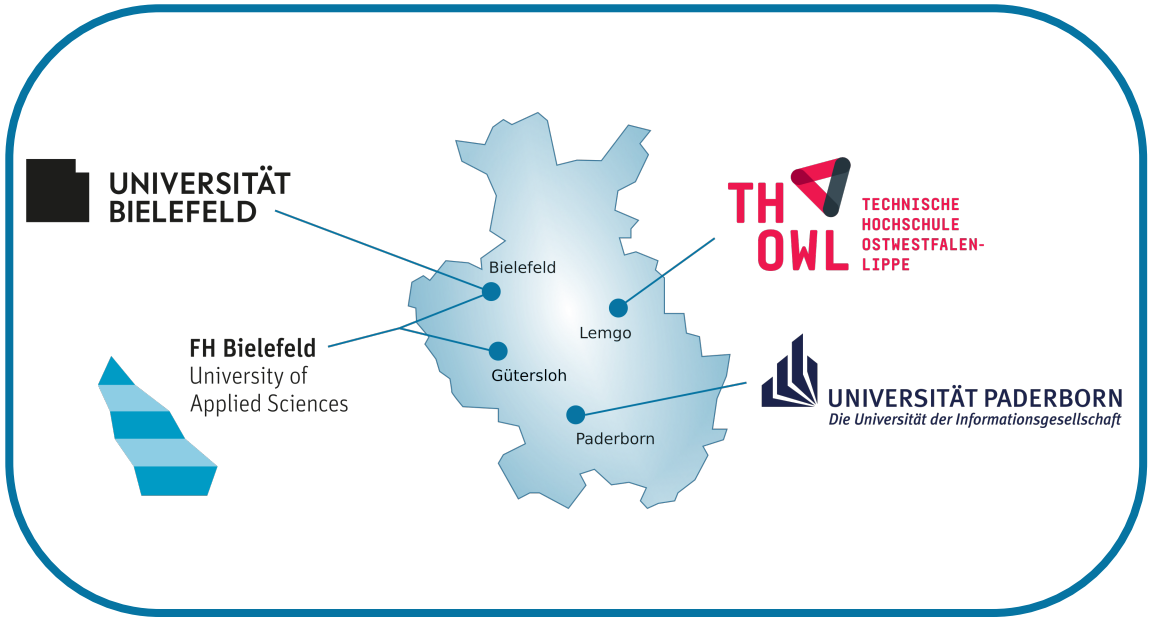
UNIVERSITÄT BIELEFELD

FH Bielefeld
University of Applied Sciences

UNIVERSITÄT PADERBORN
Die Universität der Informationsgesellschaft

TH OWL
TECHNISCHE HOCHSCHULE OSTWESTFALEN-LIPPE

We aim to:



Establish *availability* of machine learning

Provide *machine learning as a service*,

especially for small and medium-sized companies

Thus, *boosting transfer* of machine learning technology *in practice*

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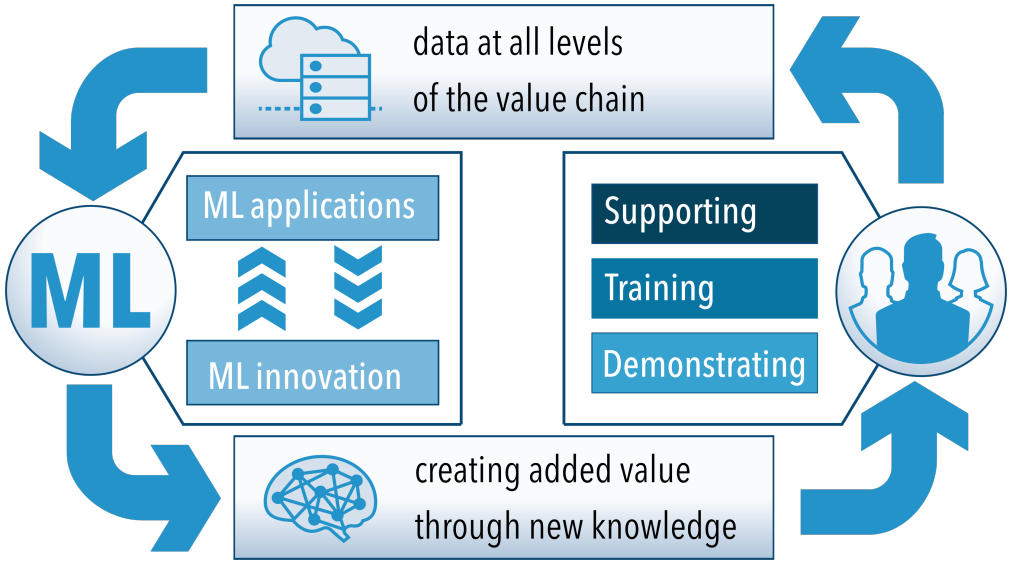
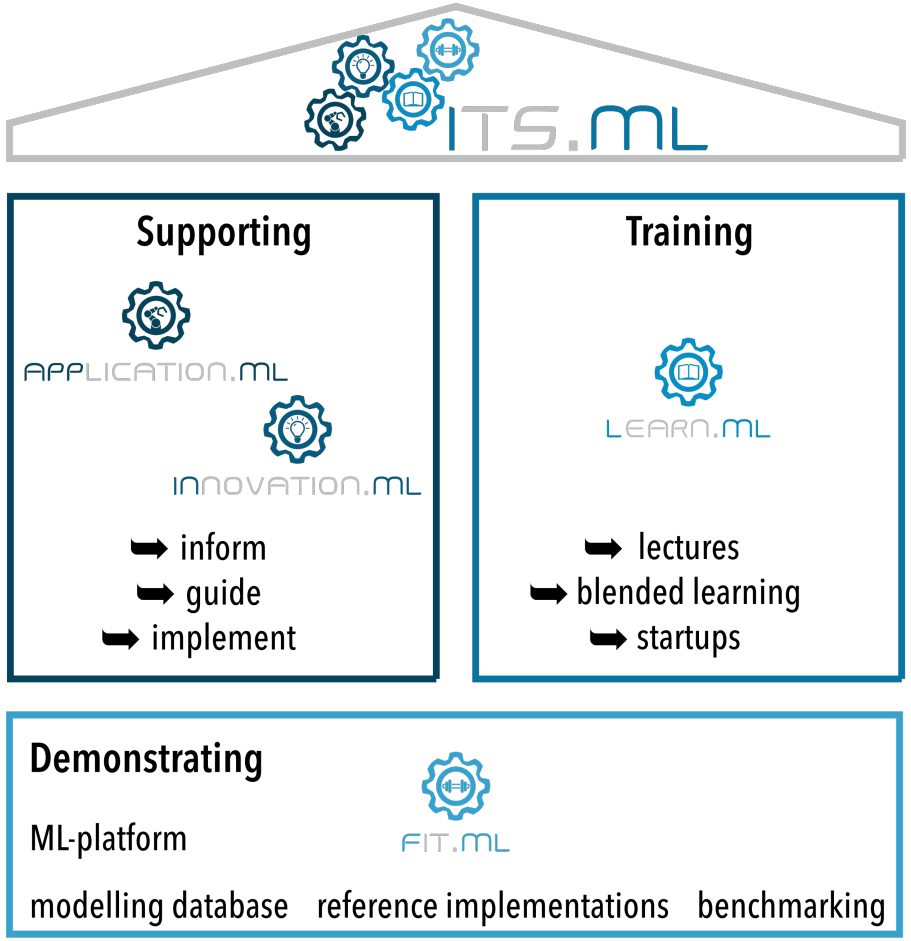
The potential of machine learning (ML):





- ➡ adding value by deriving new knowledge from data
- ➡ enabling data-driven processes throughout the entire value chain
- ➡ ITS.ML promotes this process by a triad of ***supporting, training and demonstrating***

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Supporting

Bringing ML into practice, linking prominent application domains with areas of innovation

APPLICATION.ML

Application Domains ITS

- (H1) Predictive Maintenance, Condition Monitoring
- (H2) Learning Assistant Systems
- (H3) Cognitive Plug and Work
- (H4) Data-driven Quality Management
- (H5) Data-driven Optimization
- (H6) ML in ICT Systems

INNOVATION.ML

ML Innovation Domains

- (I1) Learning on Data Streams
- (I2) Interpretability
- (I3) Benchmarking
- (I4) Greybox Learning
- (I5) Embedded Learning

ITS.ML

Supporting

APPLICATION.ML

INNOVATION.ML

- ➡ inform
- ➡ guide
- ➡ implement

Training

LEARN.ML

- ➡ lectures
- ➡ blended learning
- ➡ startups

Demonstrating

ML-platform

FIT.ML

modelling database | reference implementations | benchmarking

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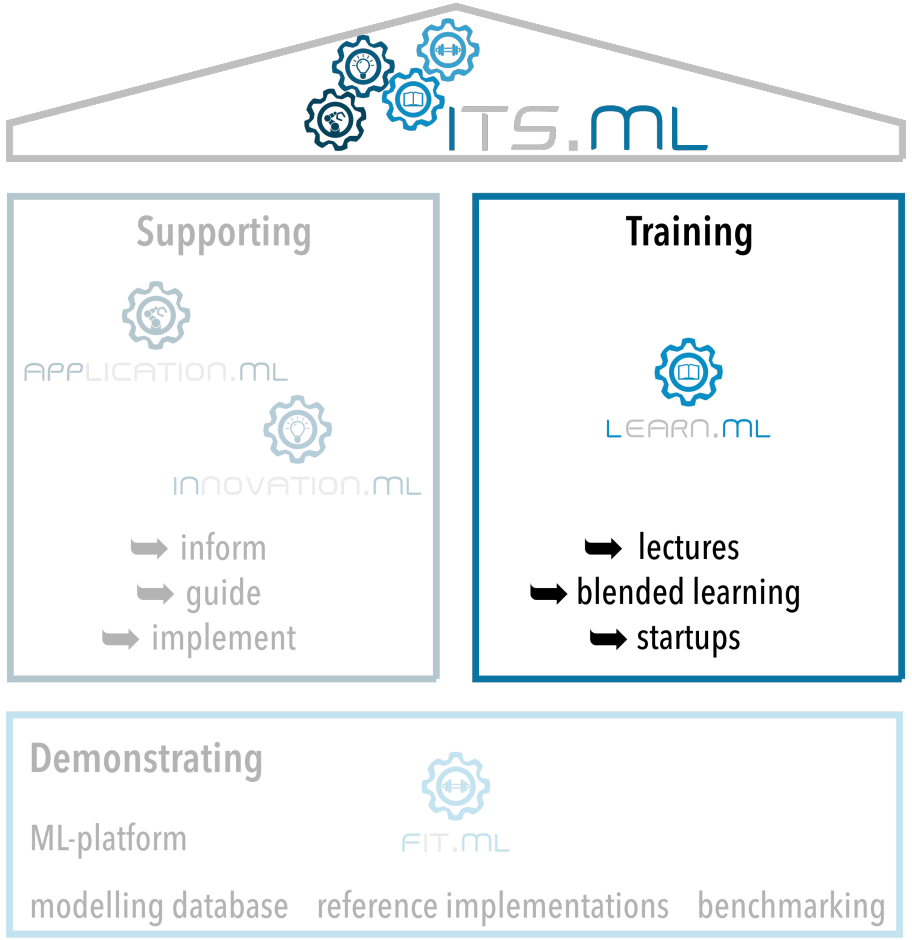
Training

Talks and practical demonstrations at the ITS.ML Innovation Day, 29.11.2019 at University Bielefeld (© ITS.ML).

- ➡ courses and qualification opportunities for different levels of expertise
- ➡ novel lecture formats and inter-university teaching modules for students as future skilled workers
- ➡ close coorperation with local entrepreneurs and startups (ML Innovation Day, Lab tours, Think Tanks, etc.)



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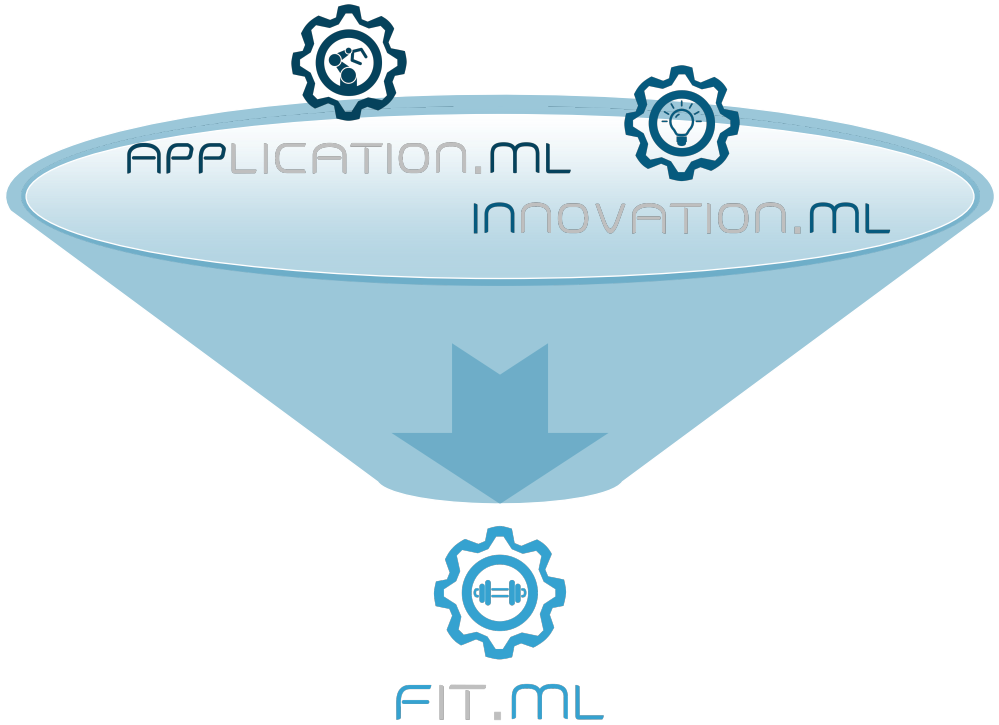
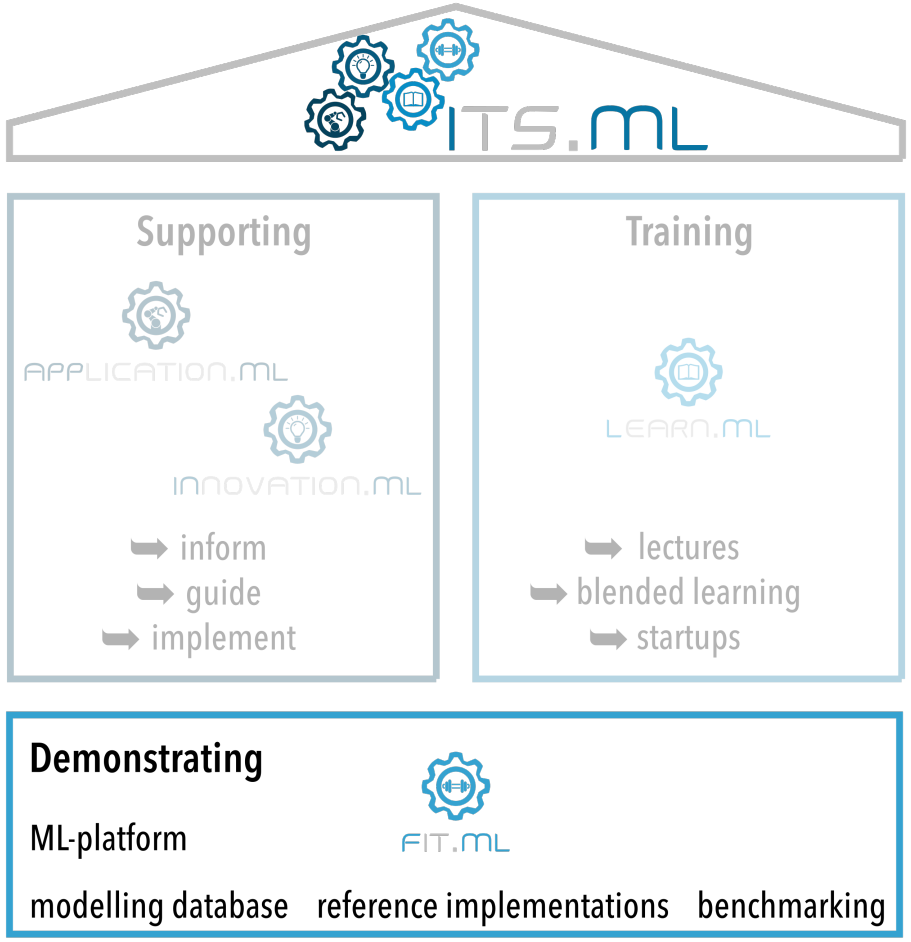
Demonstrating

ITS.ML creates genuine added value by providing **descriptions of applied modelling examples** and **reference implementations** on the ITS.ML webportal FIT.ML





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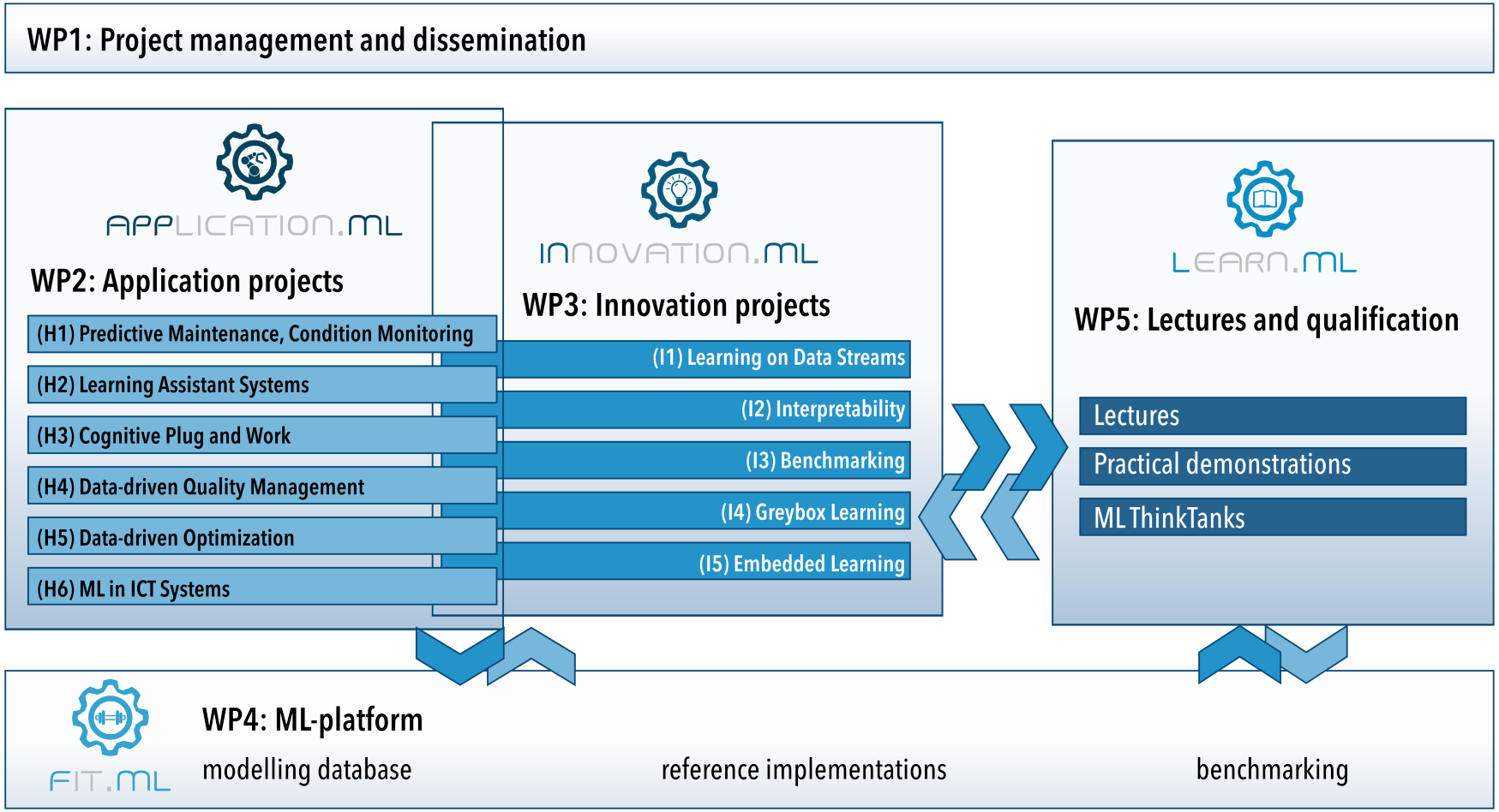
Operationalisation in work packages