Verification and Analysis for Safety and Security of Applications in Life

06/2024 – 05/2027

EU TWINNING

Funded by the European Union

VASSAL Consortium

Beneficiary Partners:

- Brno University of Technology (BUT)

- Vienna University of Technology (TU WIEN – TUW)

- The French Alternative Energies and Atomic Energy Commission (CEA)

Associate Partners:

- Honeywell International (HON, *HISRO in the proposal*)

- The Pennsylvania State University (PSU)

VASSAL Goals

- **Twinning perspective**

- strengthen the research and institutional cooperation among the partners

- leverage the cooperation to improve the BUT's excellence and competitiveness

- **Research perspective**

- make new advances in software verification, model-based analysis and more

- look for ways to apply scientific results in real-world applications

- study the economic impact of the research efforts in the area of software verification

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the European Union**

BRNO UNIVERSITY OF TECHNOLOGY (BUT)

- **Milan Češka**

  - Coordinator of the project

  - Researcher: program and controller synthesis for uncertain systems

Martin Jírovec
- BUT lead for WP4 and WP5
- Manager for development and technology transfer
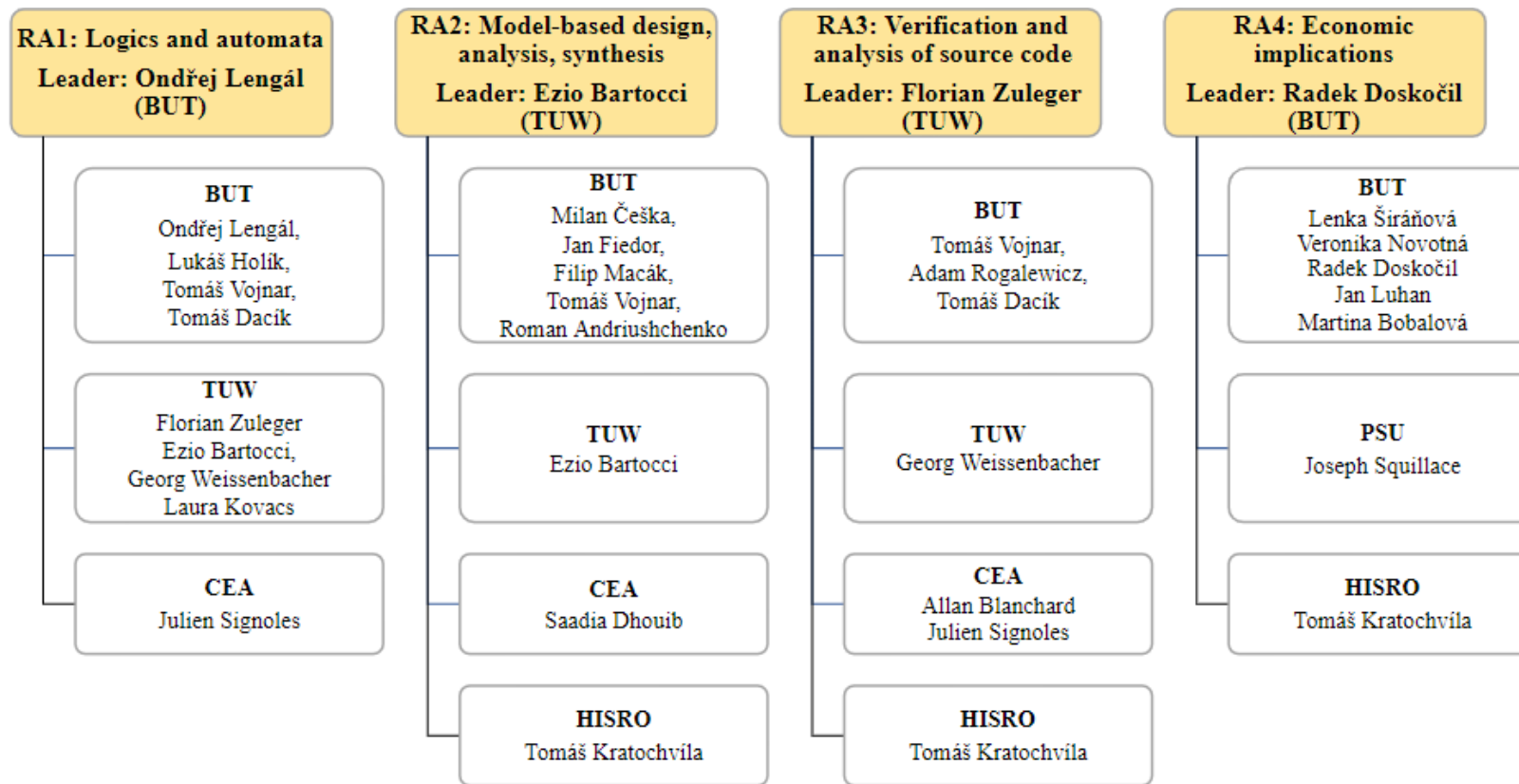- Project pre-award support (father of VASSAL)

Tomáš Vojnar
- BUT lead for WP2 and WP3

- Researcher: program verification and analysis

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Research areas

RA1: Logics and automata	RA2: Model-based design, analysis, synthesis	RA3: Verification and analysis of source code	RA4: Economic implications
Leader: Ondřej Lengál (BUT)	Leader: Ezio Bartocci (TUW)	Leader: Florian Zuleger (TUW)	Leader: Radek Doskočil (BUT)

RA1 — BUT
Ondřej Lengál,
Lukáš Holík,
Tomáš Vojnar,
Tomáš Dacík

RA1 — TUW
Florian Zuleger
Ezio Bartocci,
Georg Weissenbacher
Laura Kovacs

RA1 — CEA
Julien Signoles

RA2 — BUT
Milan Češka,
Jan Fiedor,
Filip Macák,
Tomáš Vojnar,
Roman Andriushchenko

RA2 — TUW
Ezio Bartocci

RA2 — CEA
Saadia Dhouib

RA2 — HISRO
Tomáš Kratochvíla

RA3 — BUT
Tomáš Vojnar,
Adam Rogalewicz,
Tomáš Dacík

RA3 — TUW
Georg Weissenbacher

RA3 — CEA
Allan Blanchard
Julien Signoles

RA3 — HISRO
Tomáš Kratochvíla

RA4 — BUT
Lenka Širáňová
Veronika Novotná
Radek Doskočil
Jan Luhan
Martina Bobalová

RA4 — PSU
Joseph Squillace

RA4 — HISRO
Tomáš Kratochvíla

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Project news:

- Web: https://vassal.fit.vut.cz/

- Social networks:
  - Instagram   @vassal_project
  - Twitter/X   @vassal_project
  - Facebook   vassal.project
  - LinkedIn   vassal_project

Thank you for your attention