



MechaTwing

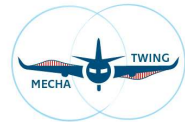
TWINNING FOR EXCELLENCE IN MORPHING AND AERO-MECHATRONIC WING
CONTROL: A LEAP TOWARDS ECO-SMART AVIATION (101159722)

CZ-SK WEBINÁŘ K VÝZVĚ TWINNING 2026

Czech Technical University in Prague, Faculty of Mechanical Engineering

Mgr. Radka Preclíková

5. 2. 2026

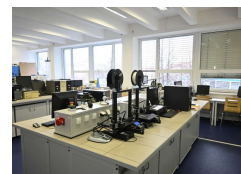


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CZECH TECHNICAL UNIVERSITY IN PRAGUE

- 1707 founded
- 1864 mechanical engineering education



Czech Technical University in Prague

Faculty of
Civil
Engineering

Faculty of
Electrical
Engineering

Faculty of
Nuclear&Physical
Engineering

Faculty of
Biomedical
Engineering

Faculty of
Mechanical
Engineering

Faculty of
Architecture

Faculty of
Transportation
Sciences

Faculty of
Information
Technology



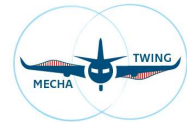
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AGENDA

- The MechaTwing journey
- Finding Partners
- Steps taken to improve the application and examples of assessors's comments
- Lessons learned
- MechaTwing implementation phase and final tips

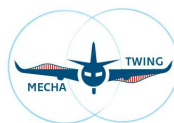


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PROJECT OVERVIEW

Total project cost 1 489 280.47 €
 Start date: 1 September 2024
 End date: 31 August 2027
 Form of funding: Lump Sum
 Prefinancing (M1): 1 191 424.38 €
 Reporting: M17 (progress report), M36 (final report)



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WPs OVERVIEW AND INTERCONNECTION



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The MechaTwing journey.....

Submission in 2022 – **unsuccessful**

Submission in 2023 – **successful**

Finding Partners (2022):

Previous cooperation – DLR (Germany) Institute of Aeroelasticity

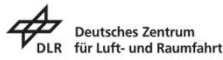
No previous cooperation – PoliTo (Italy) Department of Mechanical and Aerospace Engineering

Approach:

Known from previous cooperation: email directly to known Researchers, easier as relationship already established

Unknown – new contact: found them via PoliTo web research profiles, then email to Group leaders, online meeting

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The MechaTwing journey.....

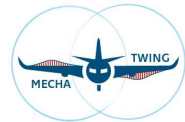
Forming Consortium for resubmission in 2023:

Three key points to success:

- ✓ Expanding Consortium – added , TU Wien (Austria) - Institute of Mechanics and Mechatronics
- ✓ Involving CzechInvest as Associated Partner
- ✓ For DLR and PoliTo – building on the relationship from 2022 submission, through regular online meetings
- ✓ Meeting in person colleagues from PoliTo – researchers and RMAs

How:

EARMA conference 2022 in Oslo – approached PoliTo RIMIN Manager of the Collaborative and multi-disciplinary research unit, then Mobility internship @ PoliTo RIMIN in March 2023, joined by Profs from CVUT FME to meet Researchers at DIMEAS



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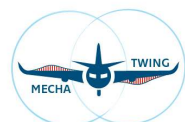


The MechaTwing journey.....

FORMING CONSORTIUM

LESSONS LEARNED:

- ✓ Do not underestimate the time needed to build the trust and communicate expectations
- ✓ If no previous cooperation at the group-to-group level, focus on describing previous collaboration at higher institutional level (e.g. Faculty-to-faculty)
- ✓ If possible, get to know your new Partners face-to-face prior to starting writing your proposal
- ✓ Think strategically about your Consortium, long-term perspective beyond the project, sustainable growth

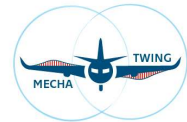


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Steps taken to improve the application....

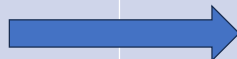
Proposal evaluation scores 2022 and 2023:

Acronym and year of submission:	MechaTwing 2022	MechaTwing 2023
Total score:	12 (threshold 10)	14,5 (threshold 10)
Criterion 1 - Excellence	Score: 4.50 (Threshold: 3/5.00)	Score: 4.50 (Threshold: 3 / 5.00)
Criterion 2 - Impact	Score: 4.00 (Threshold: 3/5.00)	Score: 5.00 (Threshold: 3 / 5.00)
Criterion 3 - Quality and efficiency of the implementation:	Score: 3.50 (Threshold: 3/5.00)	Score: 5.00 (Threshold: 3 / 5.00)



Proposal evaluation comments 2022 and 2023:

2022	2023
Criterion 1 – Excellence (Score: 4.50/5.00) + strong clarity of objectives , solid methodology, and well-justified capacity-building measures , especially for the widening partner. - key areas for improvement include clearer articulation of the added value of twinning for research advancement, full quantification of KPIs, and more robust and detailed open science and data reuse strategies.	Criterion 1 – Excellence (Score: 4.50/5.00) + excellent clarity and relevance of objectives; strong strategic vision and policy alignment ; high-quality methodology and Open Science integration; credible collaboration with leading institutions - minor and non-critical weaknesses that do not significantly affect its credibility or expected impact



Proposal evaluation comments 2022 and 2023:

2022	2023
Criterion 2 – Impact (Score: 4.00/5.00) + the proposal is strong in ambition, alignment, and strategic intent - would benefit from greater specificity, clearer quantification, and deeper elaboration in several key areas, particularly regarding KPIs, impacts , stakeholder engagement , and IP management	Criterion 2 – Impact (Score: 5.00/5.00) + very strong and credible impact potential , multi-level pathways; strong capacity-building and reputational benefits for the coordinator; excellent communication and exploitation strategy; sound risk mitigation and IPR management - minor weaknesses , limited justification for some quantified impact estimates

Proposal evaluation comments 2022 and 2023:

2022	2023
Criterion 3 - Quality and efficiency of the implementation (Score: 3.50/5.00) + solid structure, credible planning, and a competent consortium , with strong alignment to programme goals - sequencing of activities, insufficient detail in management and governance, unclear justification of resource allocation, and gaps in risk mitigation, infrastructure access, and dissemination planning	Criterion 3 - Quality and efficiency of the implementation (Score: 5.00/5.00) + excellent and coherent work plan with strong alignment to objectives; comprehensive and credible risk management ; well-justified and appropriate resource allocation ; highly complementary, balanced, and capable consortium; strong industrial engagement and exploitation readiness - no significant weaknesses identified



Steps taken to improve the application....

WRITING YOUR PROPOSAL - LESSONS LEARNED:

- ✓ **Twinning objectives alignment:** clearly describe how the project will strengthen scientific excellence, capacity, and networking of your institution, not just deliver research results. Always cross-check with the objectives and goals of the Work Programme document.
- ✓ **Complementary consortium:** engage leading partners with proven excellence and clearly differentiated roles that demonstrate real knowledge transfer, engage industry/ end user. Previous collaboration and meeting them in person (if new) is an advantage.
- ✓ **Focus on twinning impact (not research alone):** critical is the long-term institutional change, skills development, and sustainability beyond the project lifetime.
- ✓ **Design high-quality, realistic and achievable activities:** ensure twinning actions (internships, trainings, workshops) are well-structured, feasible, and directly linked to capacity building goals/ KPIs/ budget/ dissemination and communication.
- ✓ **Demonstrate strong management and commitment:** present clear governance, thorough risk management and mitigation strategy, and strong institutional support from all partners. Budget split and justification should be realistic and sound.
- ✓ **Write clearly and evaluators-oriented:** use concise, jargon-free language, address each evaluation criterion explicitly. Structure the document in a way to make it easy for evaluators to see excellence, impact, and implementation quality.



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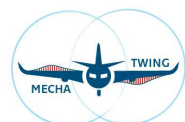


MechaTwing implementation....

- Project stage - currently in Month 17 (out of 36)
- Activities progressing well – need to have a good project management in place (highly task-intensive and complex coordination between various stakeholders at different levels)
- Must have top-management support – engagement of researchers and RMA's (different needs) and their intensive collaboration activities, organisational change, must think ahead and what will be beyond (securing further funding and growing the network) + achieving KPIs
- Limited time for implementation – only three years

Final tips:

- **Think about the unexpected (e.g. Security measures)**
- **Consider the shared project management tool (platform) early on and consult with partners (various countries = different rules and practice)**
- **Enjoy the ride, twinning is a great way to build your RMA contacts and explore new horizons!**



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Thank you and all the best with your
application!

Questions?

