

PEGASUS

Research & Development



EDF Days 2023

Successful EDF Projects “TDRIC”

20.09.2023, Vienna

Project overview

TDRIC - Tactical Drones in Rain and Icing Conditions

TDRIC

Tactical Drones in Rain and Icing Conditions

Call title:	Research actions for SMEs and Research Organisations
Topic title:	Non-thematic research actions by SMEs and research organisations
Duration of the project:	36
Type(s) of activities:	Generating knowledge, Studies, Design
Estimated total cost:	€ 3,961,963.88
Maximum EU contribution:	€ 3,961,963.88

TDRIC

Tactical Drones in Rain and Icing Conditions

TDRIC will measure the effects of defined rain and icing conditions on Class I UAVs, designing resilient UAVs and advance ground-based climatic test capabilities

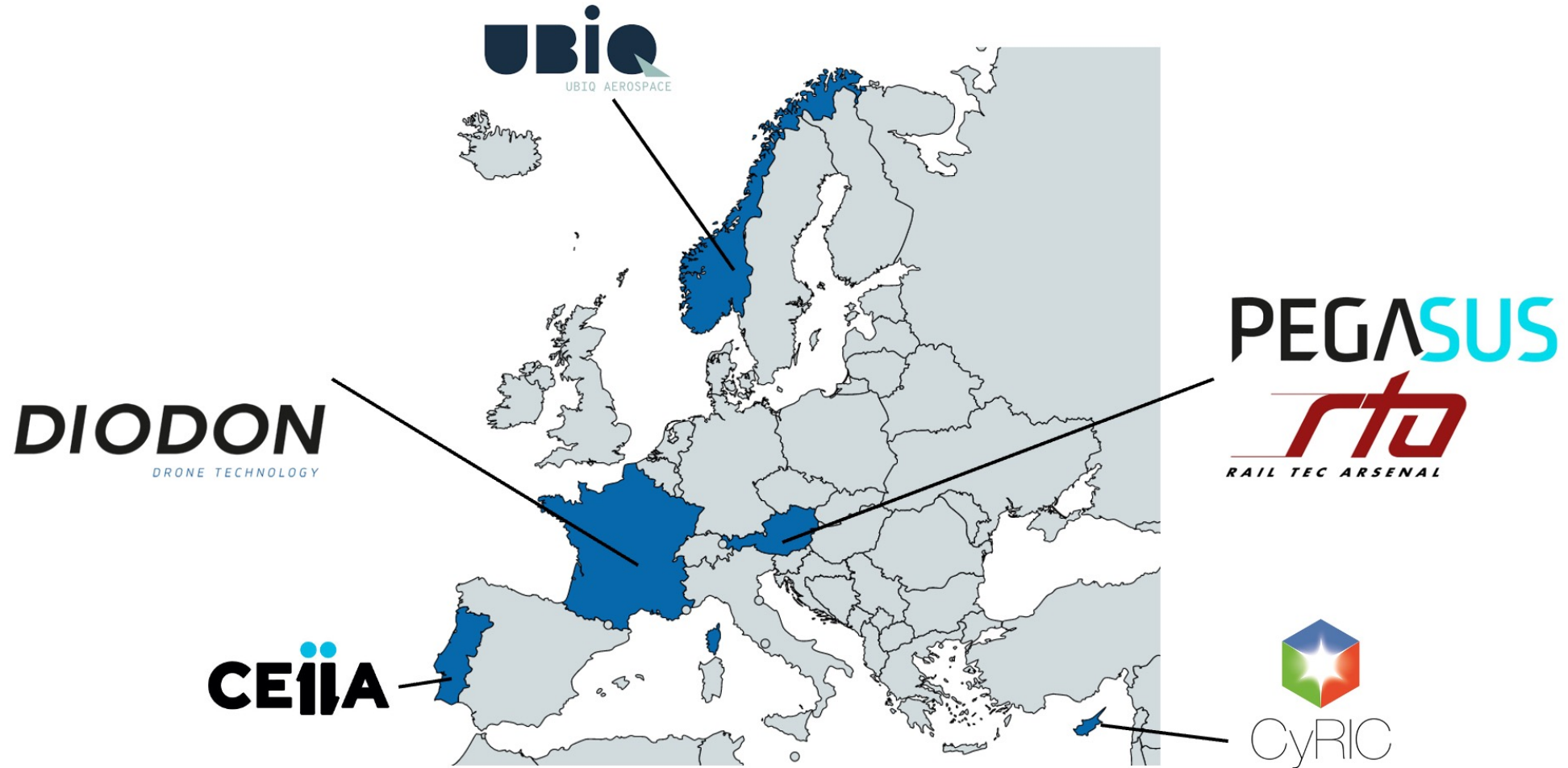
Class I UAVs play a major role in military operations and need to perform in all situations. Little research has been conducted on the operation of Class I UAVs under severe weather conditions.

The project TDRIC will

- determine and quantify the effects of defined rain and icing conditions on Class I UAVs.
- design UAVs resilient to rain and icing conditions, equipped with novel detection and protection technology.
- further develop ground-based climatic test capabilities.







Project Consortium

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Project Consortium

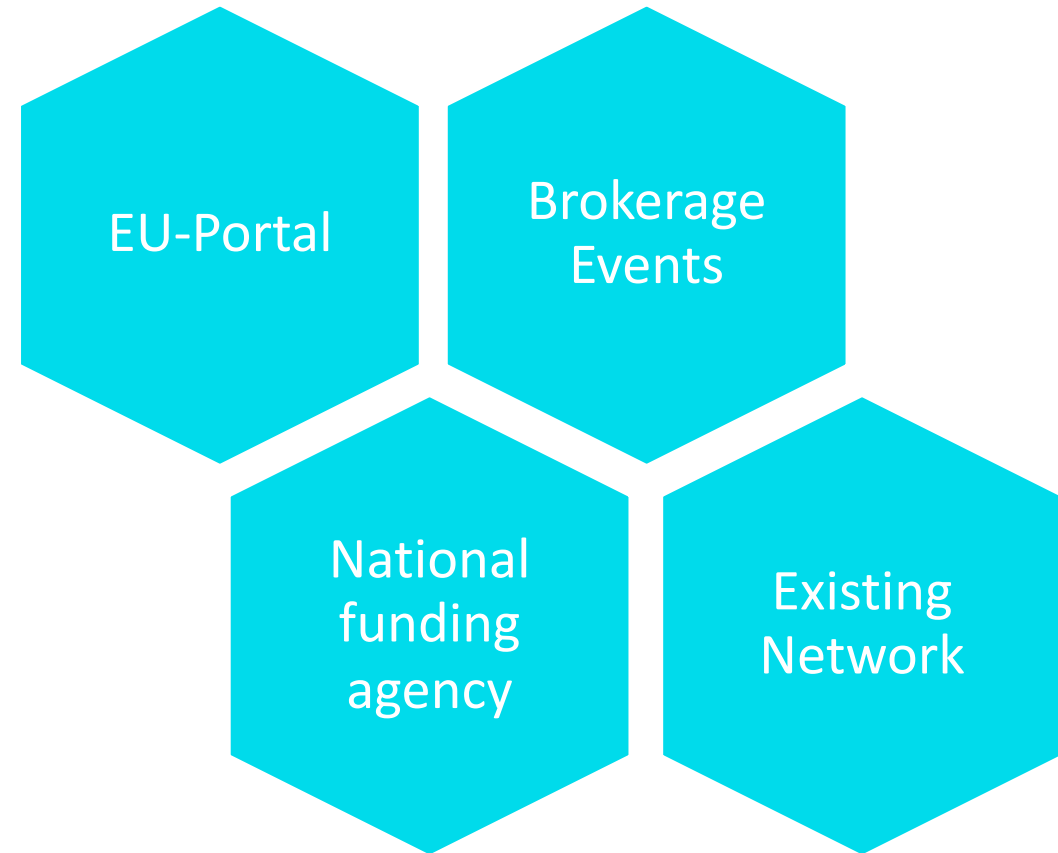
Organisation	Country	Type	Role
	Austria	SME	Coordinator
	Austria	RTO	Partner
	Cyric	SME	Partner
	France	SME	Partner
	Norway	SME	Partner
	Portugal	RTO	Partner

EDF Experiences

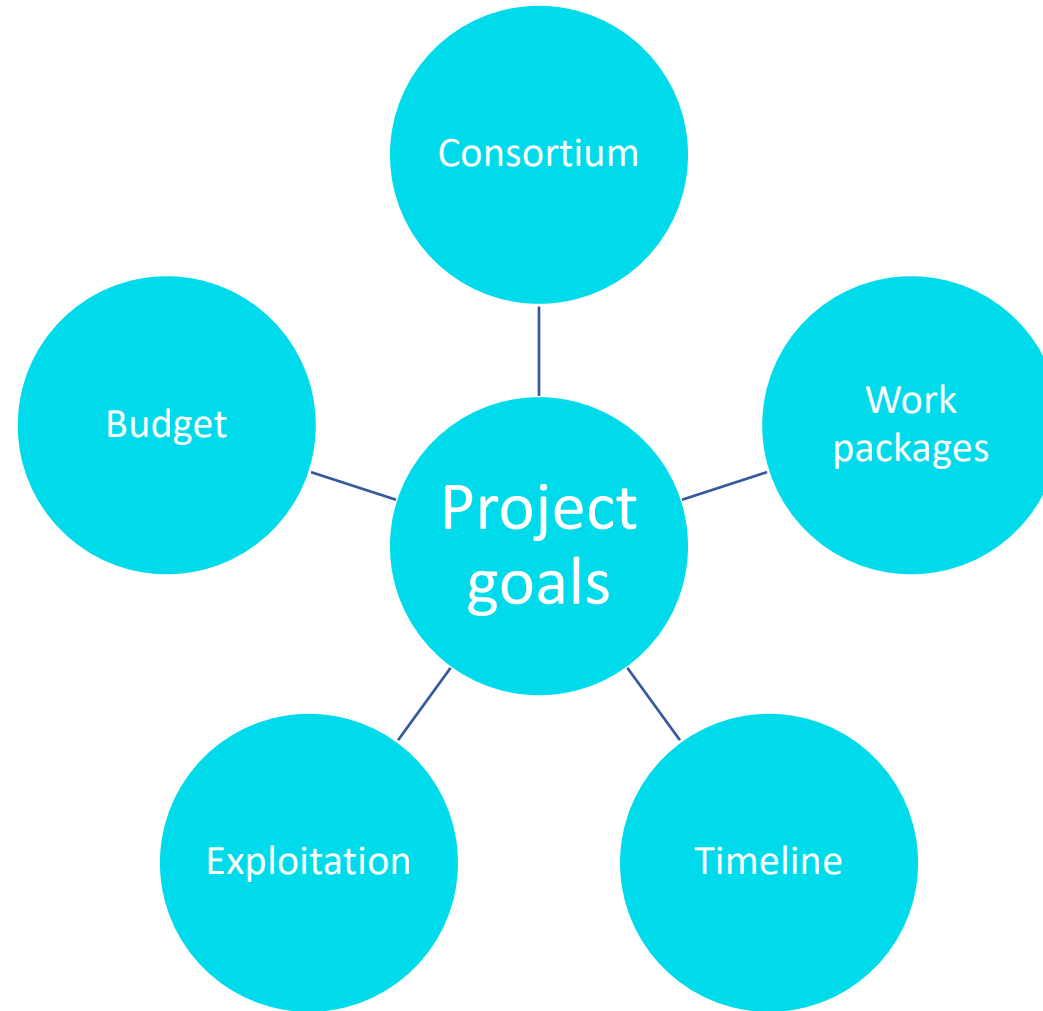
TDRIC

How to setup a consortium?

- Consortium lead must be a SME
- > 3 countries in EU or associated countries (Norway)
- Mixture between research organizations and SMEs



Proposal Preparation



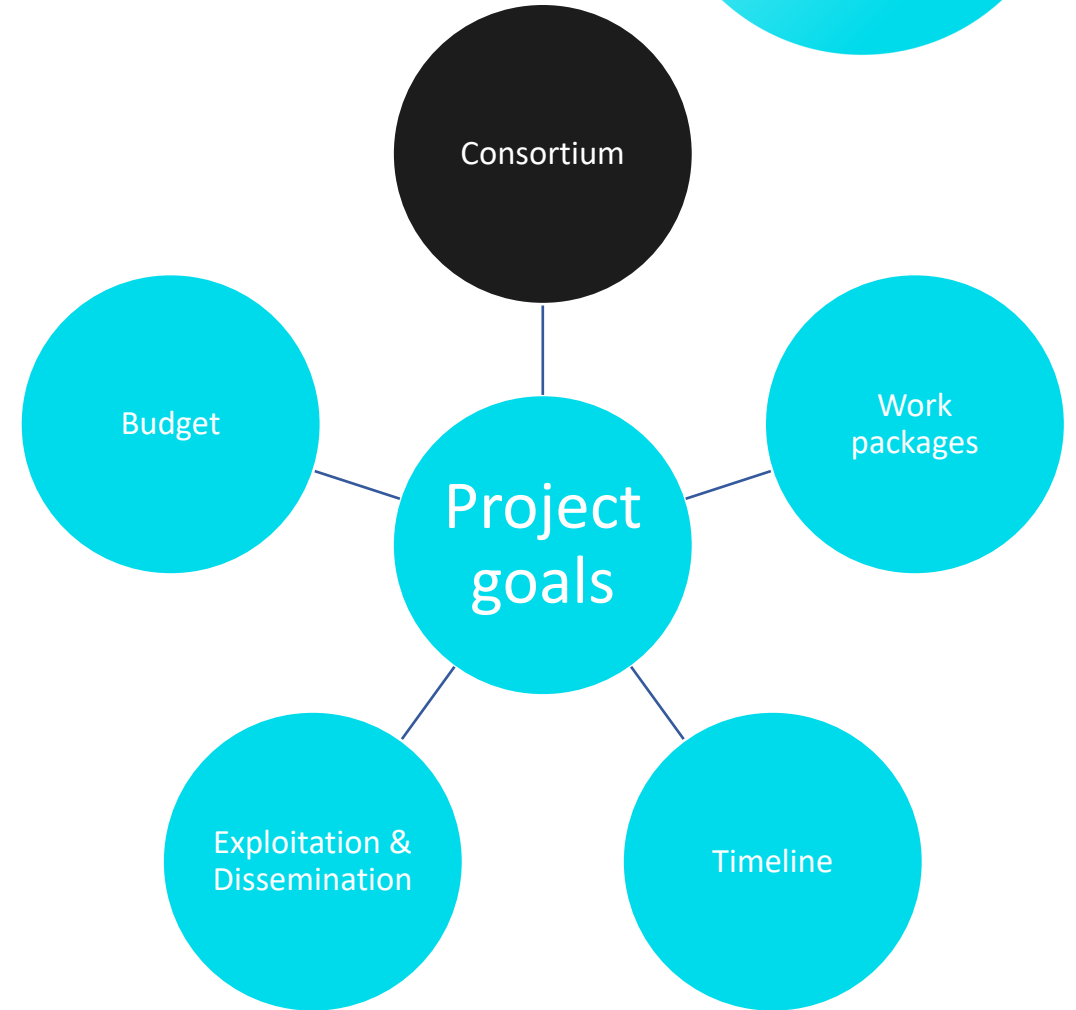
Project Goals

- Define top level goals according to the call description with a high impact
- Split top level goals in detailed project goals
- Derive project structure (overall concept)



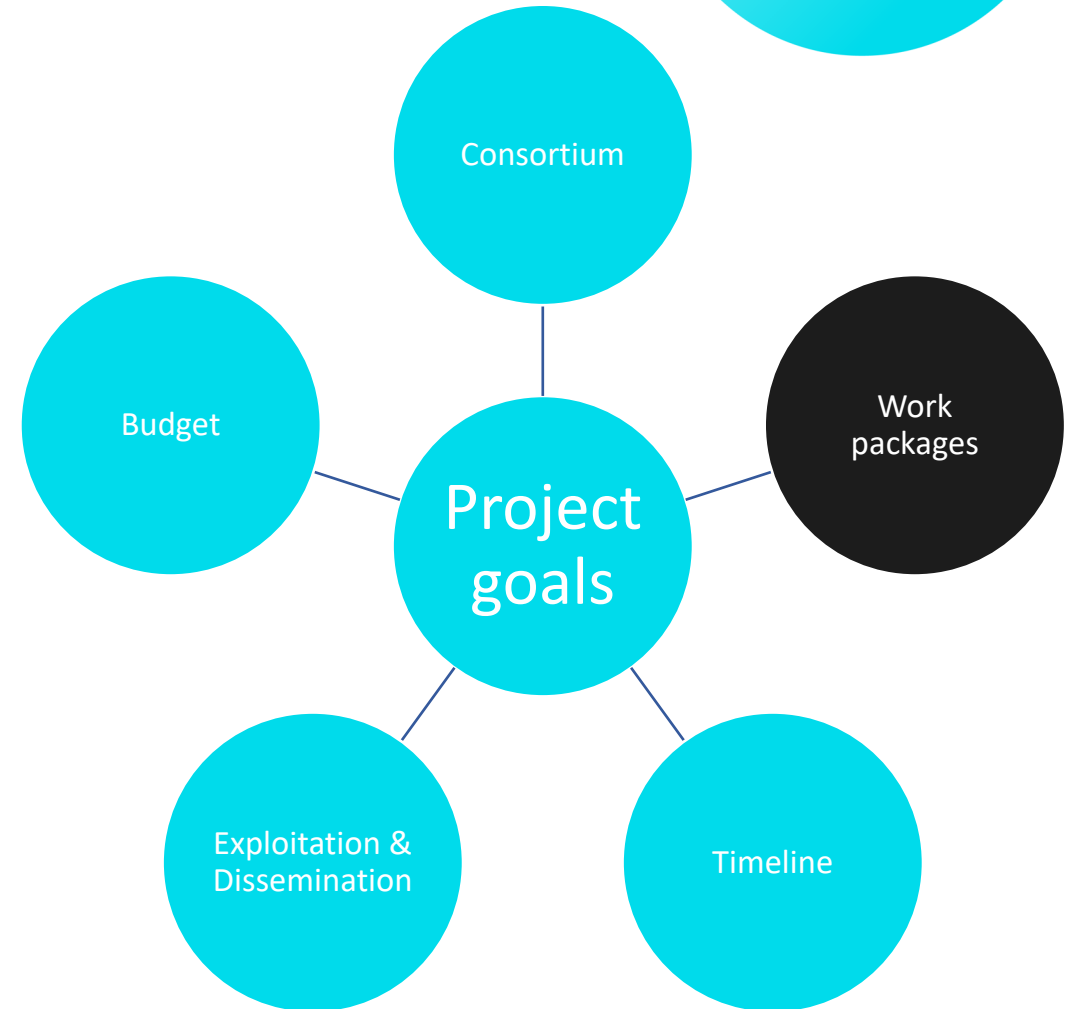
Consortium

- Expertise and know-how of consortium should match project goals
- Recurring meetings with consortium
- Start to prepare company related documents at an early stage
- Ownership & control aspects need to be taken into account
- Note that the consortium may change during the preparation phase (final confirmation of partners may come late and depends on goals, concept and work packages)



Work Packages

- Develop work package structure based on overall concept
- Consider lump sum regulations (payment based on progress)
- Define milestones and deliverables for each work package
- Identification of work package responsibilities
- Note that this is a strong iterative process



Timeline

- Derive a first estimation of the timeline (GANTT Chart)
- Consider work package interferences, milestones and deliverables (SMART)
- Consider lump sum regulations (payment based on progress)



Exploitation & Dissemination

- Focus on impact and exploitation possibilities
- Generate significant added value for the largest possible target group
- Define in detail dissemination and exploitation activities for the entire consortium



Budget

- Generate a rough budget estimation in parallel to the overall concept and work package structure definition
- Read the funding rules carefully and communicate them clearly to the entire consortium
- Be sure to use the actual templates
- Define a detailed budget as soon as the work package structure is fixed
- Unification of costs per cost category across the consortium



Proposal Main Parts

- Part A (online in EU Funding Tender Portal)
- Part B (Description of Action) -> limited to 100 pages
- Detailed Budget Table
- References
- List of Infrastructure
- Ethics Issue Table
- Ownership & Control Declarations
- Letters of Support, Letters of Intent

General Recommendations

- Take the preparation phase serious
- Schedule meetings and discussions with the entire consortium
- Work in a common document (e.g. Office 365) with change tracking and comments
- Define clear areas where input from the partners is required
- Use support from national funding agency (FFG)
- Focus on generating impact for European Defence
- Talk to the national Ministry of Defence (MoD)
- Read the call description carefully
- Consider the evaluation criteria (scoring scheme)

Motivation

Strengthen
cooperation within
EU

Advance state-of-
the-art and EU
autonomy

Enhance
capabilities of
European Armed
Forces

Opportunity for
SME to conduct
R&D

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