
Digital Innovation Hubs in Healthcare Robotics



DIH-HERO KNOWLEDGE CONFERENCE 2021



About DIH - HERO



Independent platform

which connects Digital Innovation Hubs across Europe to create a sustainable network

- ◆ Supporting small and medium-sized enterprises
- ◆ Connecting businesses and healthcare stakeholders
- ◆ Supporting development of innovative products and services according to needs of the healthcare systems
- ◆ Engaging in necessary standardization for robotics in healthcare including ethical, legal and societal issues

www.dih-hero.eu



***Purpose & Framework of the DIH-
HERO Technology Demonstrator
Call***

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Purpose

- ◆ Stimulate cross-border collaboration.
- ◆ Accelerate the development of Healthcare Robotics by demonstrating the feasibility of new, innovative and enhanced robotic solutions in healthcare application domains.
- ◆ Improve and broaden the uptake of robotics solutions and increase future investments in robotics in healthcare.

Major application domains



Diagnostic Robotics

Human function analysis; Automated imaging Robotics,...

Interventional Robotics

Surgical robotics, Image guided Robotics, Training robots,...

Rehabilitation Robotics

Wearable exoskeletons, Stationary devices, Mobile training devices,...

Robotics supporting patients

Functional support robots, Robot Assistants, Communication robots,...

Robotics supporting healthcare professionals

Ergonomical robots, Telepresence robots, Workflow optimization,...

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Framework

- ◆ Only legal entities being SMEs and slightly larger companies from EU (and its associated countries) and EEA countries are eligible for FSTP funding
- ◆ Proposals must clearly state the clinical relevance of and demand for the intended solution, have a clear linkage to the end-user and should make use of the expertise / services of the DIH-HERO network
- ◆ The proposal must fit the call text
- ◆ There must not be any conflicts of interest with DIH-HERO consortium partners and third parties receiving financial support must be financially healthy (they have to sign a declaration of no financial problems)

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Framework

- ◆ A third party may not receive more than 300k FSTP for the entire action duration of the DIH-HERO project
- ◆ The maximum funding per project is €100,000.
- ◆ The maximum project duration is 9 months
- ◆ TRL level: 6-7

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Framework

- ◆ The eligible proposals that have been submitted via the portal will be evaluated by external reviewers and ranked upon excellence, impact and implementation.
- ◆ For the current TD: The 10 highest ranked proposals will be awarded (two per application domain)

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General Definition of an SME

- ◆ According to the general SME definition stated in article 2 of the annex to Recommendation 2003/361 EC
- ◆ “To count as an SME, your organisation must be engaged in an economic activity and must have:
 - ◆ fewer than 250 employees and
 - ◆ an annual turnover of no more than €50 million and/or a balance sheet of no more than €43 million
- ◆ Whether you count as an SME may depend on how you count your workforce, turnover or balance sheet. Please note that you must take account of any relationships you have with other enterprises.

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General Definition “Slightly larger company”

- ◆ To count as a slightly larger company than an SME, your organisation must be engaged in an economic activity and must have:
 - ◆ fewer than 500 employees and
 - ◆ an annual turnover of no more than €100 million
- ◆ Whether you count as a slightly larger company than an SME may depend on how you count your workforce and turnover. Please note that you must take account of any relationships you have with other enterprises.

How to form a TD Project consortium?

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Consortium formation

A consortium must at least consist of:

- ◆ 2 SMEs/ slightly larger companies from 2 different countries or
- ◆ 1 SME/ slightly larger company and 1 end-user from 2 different countries

Do you have a great innovation but did not find the right partner yet to cooperate with? Please contact our network!

Note: An end-user in the consortium may not receive any money as the financial support for third parties is targeted to support SMEs and slightly larger companies.

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How to prepare your proposal?

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Proposal content

1. Administrative Data

- ◆ Basic contact data of the TD project partners
- ◆ Key Data of the TD Project
- ◆ Full title of the TD
- ◆ Short name of the TD
- ◆ Brief description (short abstract of approx. 8 -10 lines)
- ◆ Targeted application domain
- ◆ Current TRL
- ◆ Project duration

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Proposal content (2)

2. Description of the Technology Demonstrator (Proposal Template)

The following sections also described in the proposal template will serve as the primary evaluation criteria:

Excellence (weight 30%) (max. 2 Pages)

- ◆ Ambition of the proposed experiment
- ◆ Innovative nature of the technologies, products, or services offered
- ◆ Soundness of the technical approach
- ◆ Novel use of value chains inside and outside healthcare

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Proposal content (3)

Impact (weight 40%) (max. 2 Pages)

- ◆ Market opportunity and market readiness level
- ◆ Commercial Strategy and Scalability (generation of new business)
- ◆ Healthcare Impact (value added, service quality, and outcome improvement)
- ◆ Economic impact (e.g. cost-saving and job transformation, skill enhancement, etc.)
- ◆ Development of business model and funding plan
- ◆ Contribution to and adoption of standards
- ◆ Contribution to EU wide adoption of Robotics in Healthcare

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Proposal content (4)

Implementation (weight 30%) (max. 2 Pages)

- ◆ End-User involvement and alignment with the proposal
 - ◆ Team capabilities and management capacity of action
 - ◆ Resource utilisation and efficiency
-
- ◆ *TD Partner profiles (max. 0.5 -1 page per partner)*
 - ◆ *Ethical considerations (max. 2 pages)*

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Proposal content (5)

3. TD Budget estimation

4. Signed declaration of honour

5. Signed declaration of informed consent for data processing

6. Questions for statistical purposes

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Eligible cost categories:

- ◆ Direct personnel costs
- ◆ Direct costs of subcontracting (maximum of 15% of the total estimated budget).
- ◆ Other services and goods
 - ◆ Direct travel and subsistence cost
 - ◆ Equipment
 - ◆ Other goods and services
- ◆ Indirect costs (25% of direct personnel costs and other direct costs)

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Eligible costs

The basic criteria for costs to be generally eligible are:

- ◆ Costs must be actually incurred by the awarded third party
- ◆ Costs must be necessary for implementing the TD project
- ◆ Costs must have been incurred within the project duration of the project

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Eligible costs (2)

- ◆ Costs must be identifiable and verifiable and recorded in the accounts of the awarded third party, in accordance with the accounting standards applicable in the country where the awarded third party is established and with the awarded third party's usual cost accounting practices.
- ◆ Costs must comply with the applicable national law on taxes, labour and social security.
- ◆ Costs must be reasonable and justified and must comply with the principle of sound financial management, in particular regarding economy and efficiency (Best-value-for-money principle).

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Ethical considerations

- ◆ The Research activities in Horizon 2020, and hence in DIH-HERO, shall respect fundamental ethical principles, particularly those outlined in “The European Code of Conduct for Research Integrity”.
- ◆ Ethical issues might refer to research with respect to e.g. humans, protection and processing of personal data, animals, environmental protection, and safety, etc. If any ethical issues apply to the TD prior to its starting date, they must be addressed in the TD proposal.

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The evaluation process

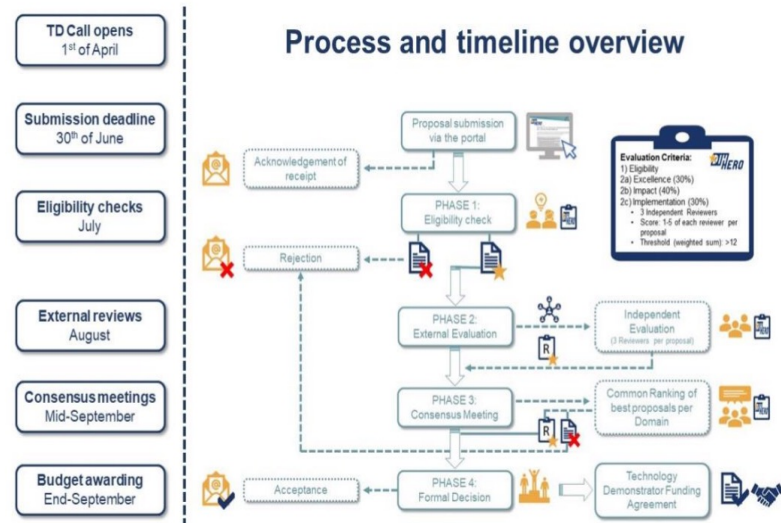
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Review phases and estimated timeline

◆ Call deadline: 30th of June 2021

- ◆ Pre-submission completeness check (mid-June)
- ◆ Eligibility check (approx. July)
- ◆ External Review (approx. August)
- ◆ Consensus and Ranking (approx. Mid-September)



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After awarding

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Agreements and Contracting

- ◆ The TD partners will have to sign a partner / collaboration agreement
- ◆ Once a technology demonstrator proposal has been awarded funding, a funding agreement will be signed between the awarded SME/ slightly larger company (as coordinator of the FSTP project, representing the partners) and the coordinator of the DIH-HERO innovation action, representing the DIH-HERO consortium members.

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Payment schedule

- ◆ The payment structure will be for the Technology Demonstrator projects is defined as follows:
 - ◆ 70% of the payment will be released at contract signature and
 - ◆ 30% after the final report has been submitted and approved.

The reimbursement rate for the eligible costs incurred is 100%.

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Innovation Coaching

- For each FSTP project a tailored package of innovation coaching will be offered by the DIH-HERO consortium, based on the project proposals.
- This innovation coaching may e.g. include coaching regarding:
 - specific technological areas,
 - ethical, legal and business support,
 - the usage of living labs and test beds,
 - etc.

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Important links for proposal preparation

[Technology Demonstrator Applicant guide 2021](#)

[Technology Demonstrator 2021 Proposal template](#)

[Technology Demonstrator 2021 Budget template incl. example calculations](#)

[Technology Demonstrator 2021 Declaration of Honour](#)

[Technology Demonstrator 2021 Declaration of informed consent for data processing and storage](#)

**If you have further questions,
please do not hesitate to contact us!**



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Questions & Answers