TOWARDS AN INESC RESEARCH AND INNOVATION ROADMAP 2030 - HEALTH TECHNOLOGIES

VIRTUAL INTERNAL MEETING FOR INESC RESEARCHERS ONLY

REGISTRATION IS COMPULSORY UNTIL 29 OCTOBER HERE: HTTPS://BIT.LY/3BPITXU

ZOOM LINKS WILL BE SENT TO REGISTERED PARTICIPANTS ONLY
Towards a Health Technology Roadmap for INESC
Joana Matos Dias | Chair of the Hub Work
Group Health Technologies | INESC Coimbra

The Research done at INESC in HT: Building a vision for 2030
Contributions from INESC Researchers (3*25)
Moderation: Susana Vinga | WG HT | INESC ID

- Arlindo Oliveira | INESC ID | AI
- Sofia Pinto | INESC ID | AI
- Alberto Abad | INESC ID | Human Language Technologies
- Hélder Oliveira | INESC TEC | AI/Communications

Moderation: Carlos Ferreira | WG HT | INESC TEC

- Duarte Dias | INESC TEC | AI/Sensors
- Luís Correia | INESC ID | Body Area Networks
- João Pedro Conde | INESC MN | Nanotechnology
- Susana Freitas | INESC MN | Microelectronics & Nanotechnology

Moderation: Diogo Caetano | WG HT | INESC MN

- Francisco Fernandes | INESC ID | Bioinformatics
- Mário Gaspar da Silva | INESC ID | Bioinformatics
- Artur Rocha | INESC TEC | Information Systems
- Joana Matos Dias | INESC Coimbra | Operations research

10:30 AM The Research done at INESC in HT: Building a vision for 2030

1) How do you think Health Technology will be able to address challenges in one or more of the intervention areas defined in the draft HT Roadmap for INESC? Which challenges? Are they scientific, economic, environmental, other?

2) Would you propose changes to the intervention areas list? Does your research fit one or more intervention areas? Which?

3) Specify how you relate your research to the intervention area(s). How will your present and future research work contribute to the intervention area?
4) We challenge you to think ahead: what is your vision for the future of that intervention area?

5) Finally if it were up to you alone to define the research lines of your institute, which research lines would you define and in which intervention areas would they fit? A research line can fit more than one intervention area.

The Roadmap

The roadmap will be grounded on 4 health-specific intervention areas + 2 cross-cutting intervention areas (they are not specific to health, but they are essential, and research lines in these areas, either health-related or not, should be pursued, because even if not directly related to health, they will have health related impacts).

Following the deep characterization report of INESC R&I capacity in HT and drawing on the expertise previously identified, find below a mapping of INESC expertise and its relation with the specific Intervention Areas defined for the purpose of the R&I roadmap.
Table 1 - Matching expertise at INESC for each of the intervention areas

**Disease Diagnosis**
- Artificial Intelligence;
- Machine Learning;
- Micro/Nanosystems;
- Biosensors;
- Microfluidics;
- Visual Computing;
- Extended Reality;

**Disease Treatment**
- Optimization Algorithms;
- Artificial Intelligence Machine Learning;
- Dynamic Systems and Control Operations Research;
- Solid Mechanics;
- Micro/Nanosystems Robotics
- Visual Computing;
- Extended Reality;

**Disease Prevention**
- Algorithms Simulation;
- Artificial Intelligence;
- Machine Learning;
- Ergonomics;
- Visual Computing;
- Extended Reality;
Table 1 - Matching expertise at INESC for each of the intervention areas

**Disease Recovery and Follow-up**
- Optimization Algorithms;
- Artificial Intelligence;
- Machine Learning;
- Dynamic Systems and Control;
- Solid Mechanics;
- Visual Computing;
- Extended Reality;
- Robotics;

**Information and Disease Support**
- Simulation;
- High-performance Computing;
- Human Language Technologies;
- Communication Systems and Security;
- Visual Computing;
- Extended Reality;

**MedTech Logistics and Support Systems**
- Dynamic Systems and Control Operations Research;
- Communication Systems and Security;
- Robotics;