IHI Call Days | Call 9

AIRAD

AI in improving RADiology workflows, treatments and training

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Challenges and objectives

Acute shortage of radiologists, lack of effective training for new staff and explosion of medical data are three of the daunting challenges that the healthcare sector have currently been facing. The objective of AIRAD is to convert these challenges into opportunities with the effective application of AI.

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Your approach to solve the problem

- Substantial improvement of radiology workflows (e.g. reading, reporting) through application of AI.
- Comprehensive training design and deployment through smart observation.
- Expediting secondary workflows (e.g. radiology workflow dependent drug trials).
- Establish best practices of AI and exploit at scale through a framework
- All the above will be accomplished through responsible and ethical use of AI.

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Is your project suitable for IHI?

- AIRAD builds on public-private partnership between industries and university medical hospital(s), to be expanded with additional partners

- To create impact for society and industry, a large scale cooperation (~30 million costs) is foreseen to achieve the project goals

- Industry will contribute mainly through in-kind contributions, this to strengthen the involvement of industry in the project execution and uptake of results

- Cross-sectorial involvement desired for improved impact along the value chain

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Outcomes and Impact

- The results of AIRAD aim to reduce radiology workflow time by 20%, reduce workflow redo by 30%. It will provide improved care quality at reduced time for patients, and it will exploit healthcare systems capabilities comprehensively.

- AI in imaging market (which includes AI in radiology) is expected to grow at a compound annual growth rate (CAGR) of around 28%, reaching about $14.4 billion by 2034.

- More efficient execution of clinical imaging trials (e.g. patient cohort selection, workflows, documentation etc.)

- Imaging biomarkers for Precision medicine (treatment)

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Expertise and resources

- We have the following partners:
  - Barco, Erasmus, Philips

- We are looking for:
  - Pharma companies with relevance of AI in radiology,
  - Medtech large companies
  - SMEs with radiology AI applications

- Barco and Philips will make Industry Contributions (both are COCIR members)

* IKOP - in-kind contributions to operational activities
** IKAA - in-kind contribution to additional activities

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