

HORIZON 2020  **HNN2.0**
HEALTH-NCP-NET

HEALTH,
DEMOGRAPHIC CHANGE
AND WELLBEING

4 July 2019, Brussels

**HEALTH
PARTNERING DAY 2019**

#H2020PartnerHealth

Flash Presentation Session

 **ICTERRA** Information & Communication Technologies

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(Healthcare IT Group)

Having more than **25 years** of software engineering experience in a wide range of industries, ICterra takes its place among the stakeholders of **healthcare** ecosystem by providing turn-key **software development services** and **medical R&D** expertise.

Organization type: **SME**

Offices in: Ankara, Istanbul (TR), Munich (DE), London (UK)

Work-force: **200+** software engineers & researchers

Trusted by:

SIEMENS
aselsan

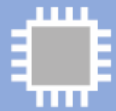
Atos
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Aspects of Technology

Industries & Domains



Embedded Systems



Cyber Security



Functional Safety



Healthcare IT



Energy



Telecommunications



Communication Technologies



Web & Mobile



Industrial IoT



Avionics



Defense Electronics



Enterprise Applications



CMMI DEV/3
Exp. 2019-04-15 / Appraisal R26642

Healthcare IT Group - *based in Ankara (TR)* 

Expertise

- ✓ **norm-compliant** software development for medical **imaging** (digital X-Ray device) and **monitoring** devices (ICU patient monitors, defibrillators) according to international standards, regulations & interfaces.
- ✓ advanced capabilities assisting therapeutic decisions fortified with **AI-based** “modality specific” **signal / image processing** and **diagnosis support** algorithms
- ✓ open and customizable development platforms to produce interoperable **tele-medicine** infrastructures

Our project idea



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H2020 topic(s) to be addressed: [DT-TDS-05-2020] AI for Health Imaging – Large repository

Project title (tentative): An integrable and autonomous **diagnosis-support framework** for localization and case-based **classification** of **thoracic anomalies** with chest radiography (CXR)

Project description: Chest radiography is a widely used and comparatively inexpensive diagnostic method to detect anomalies located in the vicinity of thorax. Though the radiograph itself is not sufficient alone, it provides a great contribution to the **accurate diagnosis** of the physician in the presence of clinical information. The abundance of X-Ray data and the lack of reporting time for radiologists pave the way for an autonomous diagnosis-support mechanism to capture the '**overlooked**' cases. We are seeking for clinical and technical partners to contribute our **diagnosis-support framework** projected to be trained on a **large-scale CXR repository** for delivering an autonomous assessment and scoring tool.

Partners sought:

- A consortium already working on the subject of **medical imaging** or **AI** (preferably X-Ray's and Mammography) with an experienced coordinator
- Partners with access to **diversified** chest radiography or mammography **datasets** (in terms of instances and diagnoses/cases), relevant **clinical data** and **medical expertise**.

Our expertise in relevant H2020 topics



#H2020PartnerHealth

- [DT-TDS-05-2020] AI for Health Imaging – Large repository
- [SC1-DTH-02-2020] Personalised early risk prediction, prevention & intervention based on AI & Big Data technologies
- [SC1-DTH-10-2019-2020] Digital health and care services
- [SC1-BHC-06-2020] Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data

Artificial Intelligence

- ✓ **Machine learning** models & **deep learning** frameworks
- ✓ **Biostatistical** modelling & validation on **clinical cohorts**
- ✓ Data recognition (e.g. OCR, OCV), elimination and augmentation techniques for the captured data in devices and platforms

Io(M)T

- ✓ **Decentralized & distributed** computing infrastructure
- ✓ **High-throughput data** management
- ✓ Hyper-vigilant decision support & diagnostics
- ✓ **Big data** and time series analysis

Tele-medicine

- ✓ **DICOM, IHE, HL7 / FHIR** compliant solutions
- ✓ **Image & signal pre/post-processing**
- ✓ Plug 'n' Play **web RTC** infrastructure
- ✓ **HIPAA** know-how
- ✓ Certified **cyber security** services & architecture (smart intrusion detection & flexible intrusion prevention)

mHealth

- ✓ Mobile application development on **iOS & Android**
- ✓ Mobile UI/UX for effective standard-compliant HMI

ICTERRA Information & Communication Technologies



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www.icterra.com

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