



# IEEE P2650 WG – SC Meeting

## 25 August 2020

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*Chair, P2650 WG*

# **P2650: Pre-Screening Audiometry Systems**

## **STATUS**

# IoT for PreScreening Audiometry



**SCREENING**

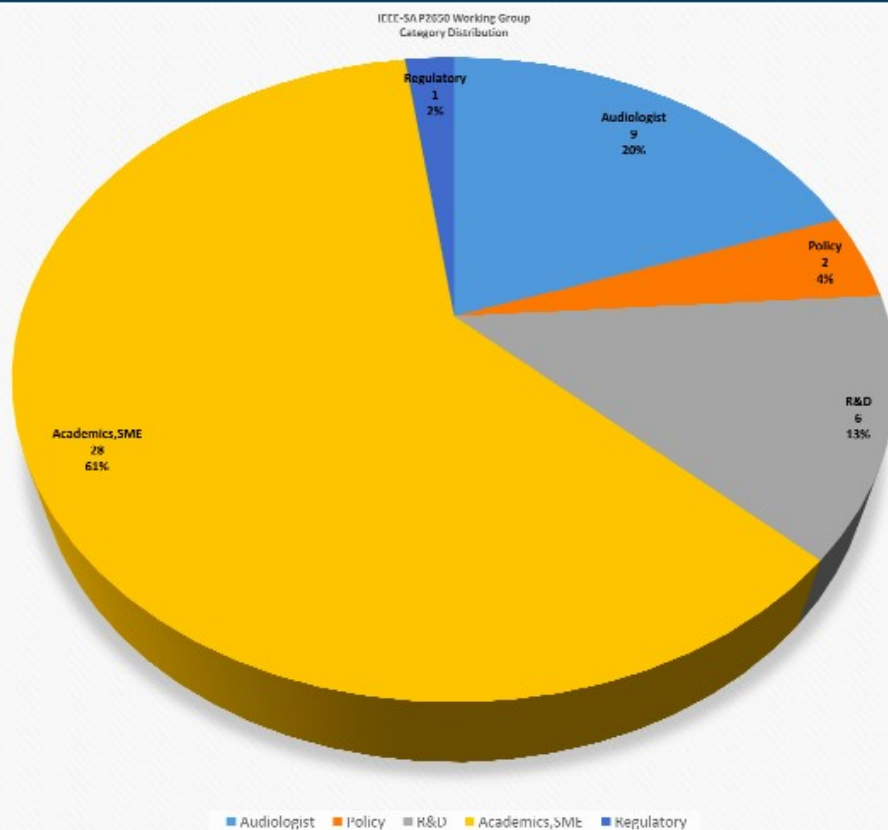


**PRE-SCREENING**



**UNMET NEED**

# IEEE P2650 – WG Profile



- 60% SMEs
- 20 % Practicing audiologists
- Rest in R&D and Regulatory domains

# MILESTONES

*2016 - 2019*

Identified Technologies that can be used for Pre-screening

- Headphone (low cost, noise cancellation, etc)
- Mobile/Wearables (low cost, open platforms, Apps, etc)
- Database (cloud infrastructure, interoperability, patient mgmnt, etc)
- Identify validation studies that can be used for Pre-screening
- Localization aspects (syllable test, speech-in-noise tests, etc)

Acceptance criteria and overlap with Current Diagnostic tests

Identify standards that can be used for Pre-screening & Existing standards that can be leveraged upon (ex: IEEE 11073 series)

Draft Standard Version 1.7 Ready for Validation

<https://ieee-sa.imeetcentral.com/p/aQAAAAAD4ASt>

# MILESTONES (Extended PAR period)

*2020 -*

## **Validation of Android based Hearing Test Applications (Apps)**

Clinical Study is being undertaken to compare the outcomes in a controlled environment that is typical of camp set up and controlled degree of simulated hearing loss in 4-5 centres – this will help refine the calibration thresholds described in the DRAFT standard

### **Status :**

- Ethical and technical clearance obtained, Consent forms for students and patients obtained
- Proposal for project funding has been submitted to IEEE
- Study could not start off as per the project plan as participating academic institutes were temporarily closed in the wake of Covid-19 pandemic
- There is still uncertainty prevailing with regard to the reopening of academic institutes
- Plan for next course of action during a WG meeting in the mid-September



# Validation Study Details

## Participating Institutions

1. Dr. SRCISH, Bangalore - Lead
2. NISH, Trivandrum
3. KMC, Manipal
4. MAHE, Manipal
5. AIISH, Mysore

*Open to add more Institutions – either within India or Outside*

More details :

<https://ieee-sa.imeetcentral.com/psas/folder/all/WzlsNzE1Mjk0ODVd/>

## Status :

- Ethical and technical clearance obtained from most of the Institutions
- Project to be done in 3 Phases as soon as Institutions open up post-COVID (expected Oct'2020)

**THANK YOU**