#### Mr Abhilash Kondraganti AidEx – 2023 **BIG DATA ANALYTICS ADOPTION IN HOs** Dr Hossein Sharifi 26th October, Palexpo, Geneva Contingencies, Capabilities, Consequences Dr Gopalakrishnan Narayanamurthy 4. Findings **1. Introduction D. Elements of BDA:** A. Contingencies ♦ 49% of humanitarian organisations (HOs) **BDA Capacity** consider the sector is still ineffective. 60-80% Competitive 20 of relief spending is on logistics, and 40% of 0 pressure logistical expenses are being wasted owing to 20% 20% 5 Collaboration a lack of analysis and duplication of efforts. Organisational 10% 0 20 readiness To combat this, HOs are embracing digital innovations ranging from crisis maps to digital 18 Organisation size 50% 2 cash transfers and artificial intelligence to 3D printing, all of which rely on data and ana-Perceived benefit

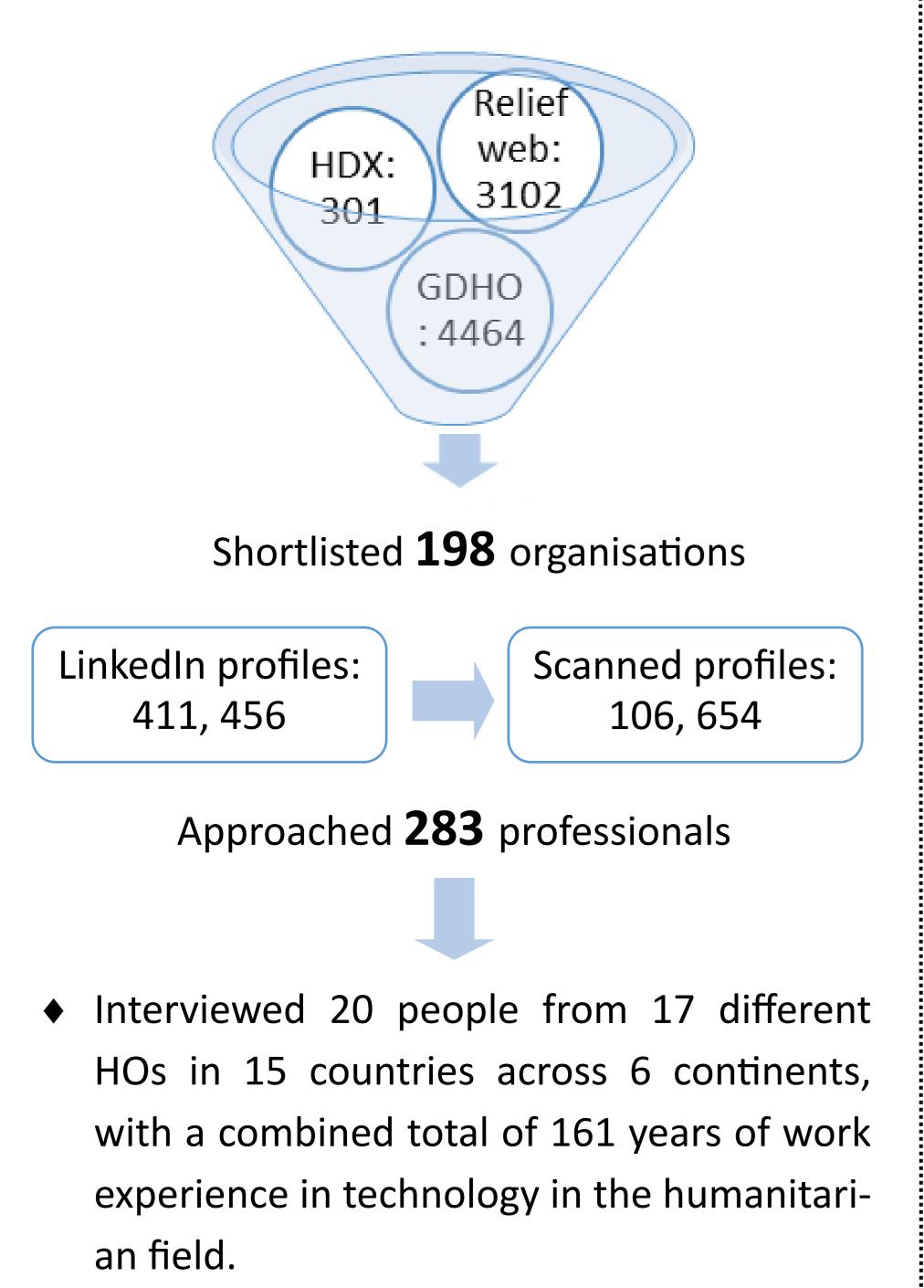
lytics.

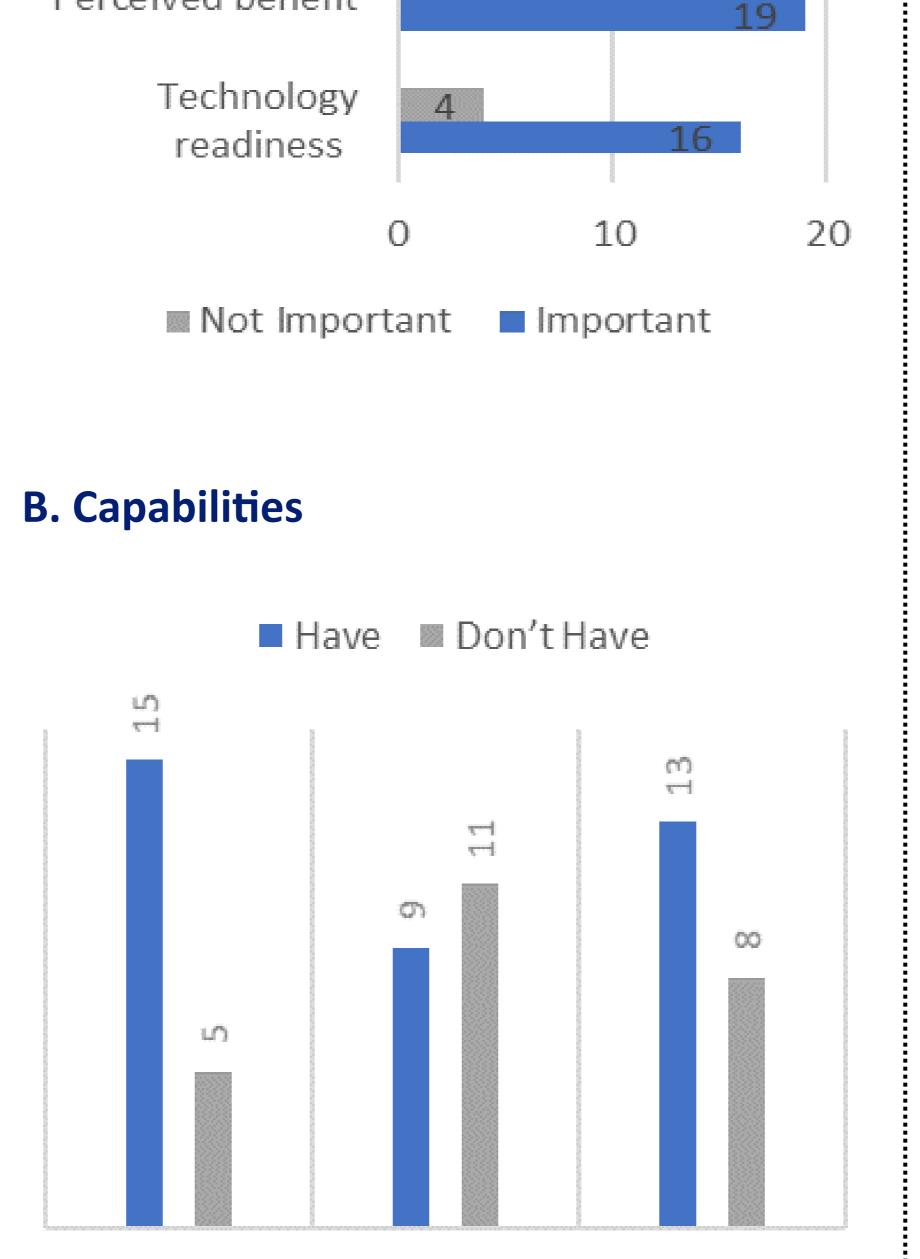
# **2. Objective**

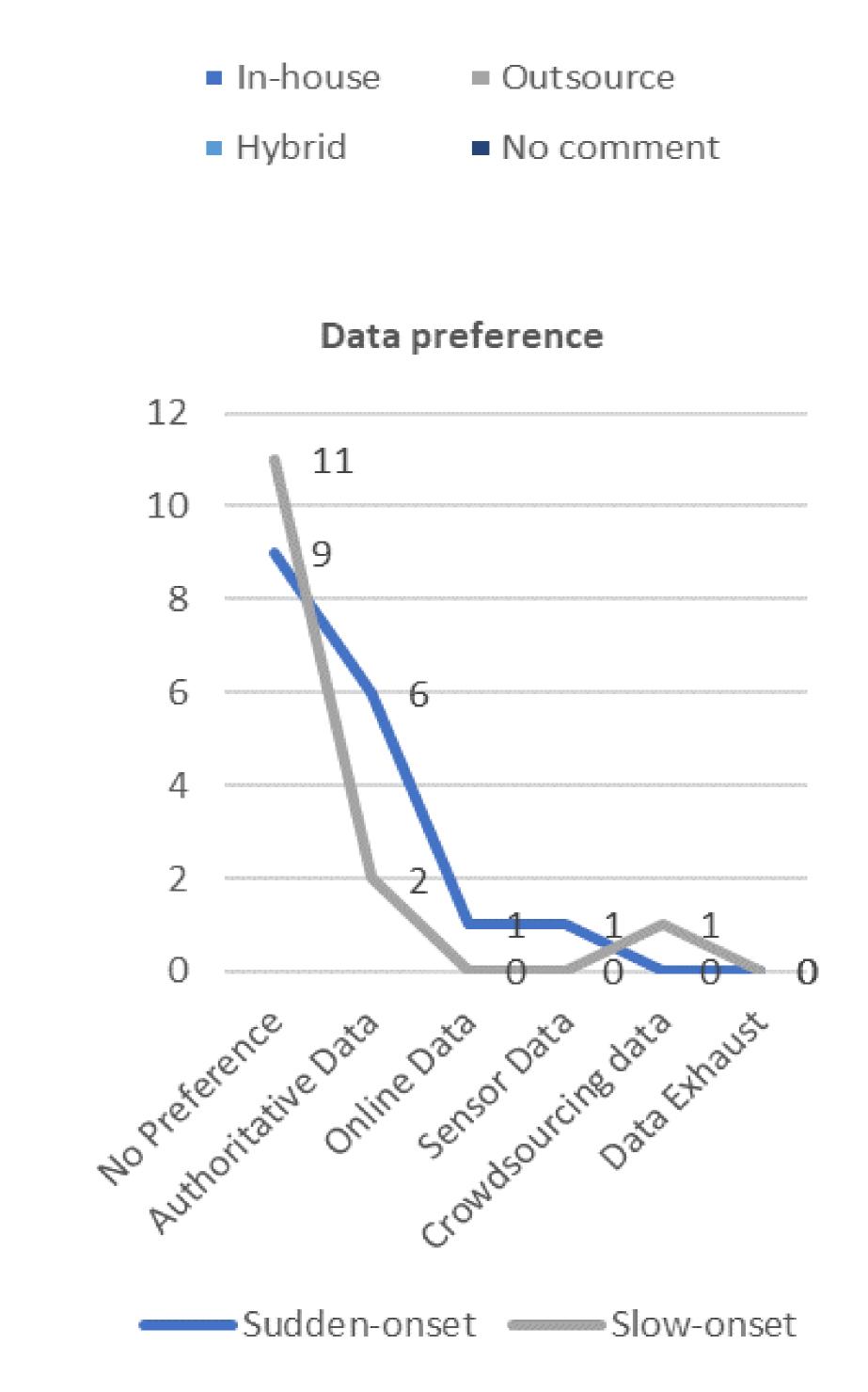
 The purpose of this research is to better understand BDA adoption in HOs, what capabilities they require, how the adoption might operate and what impacts it will have.

# 3. Methodology

Qualitative -> Purposive sampling







The only criterion we used to choose the participants was that they either work in a

Financial Personnel Data

## **C.** Consequences

- While 65% of organisations see both positive and negative consequences, negative impacts outnumber positive ones by a ratio of 1.5 to 1. The top five are as follows:
  - Strategic decision making
  - ◊ Provides objective approach
  - Vider assistance base
  - ♦ Better resource allocation
  - Orives anticipatory action: dignity of the response

# 5. Managerial Implications

⇒ We advise technology managers in HOs to design data acquisition plans even before the disaster and maintain them as a continuous operation process, and scale up BDA.

⇒ We urge managers from Monitoring and Evaluation teams, or equivalents, to quantify the operational efficiency gained via BDA, which can propel the humanitarian sector towards higher da-

technology-related role within the organisation or have a clear knowledge (based on their profile) of how technology is used in their organisation.

 The qualitative data analysis tool NVivo was used to analyse the interview data.

## ♦ Data privacy and security

♦ Interpersonal bias & judgement

♦ Difficult to knowledge transfer

♦ Inability to scale

♦ Lack of validation protocols

### ta drivenness.

⇒ We ask that all non-technology teams in HOs explore BDA in their operations rather than being reluctant to utilise it, and that HOs be transparent about how they use data and models.



**Contact:** Abhilash Kondraganti, a.kondraganti@liverpool.ac.uk (email) Management School, Operations and Supply Chain Management

