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

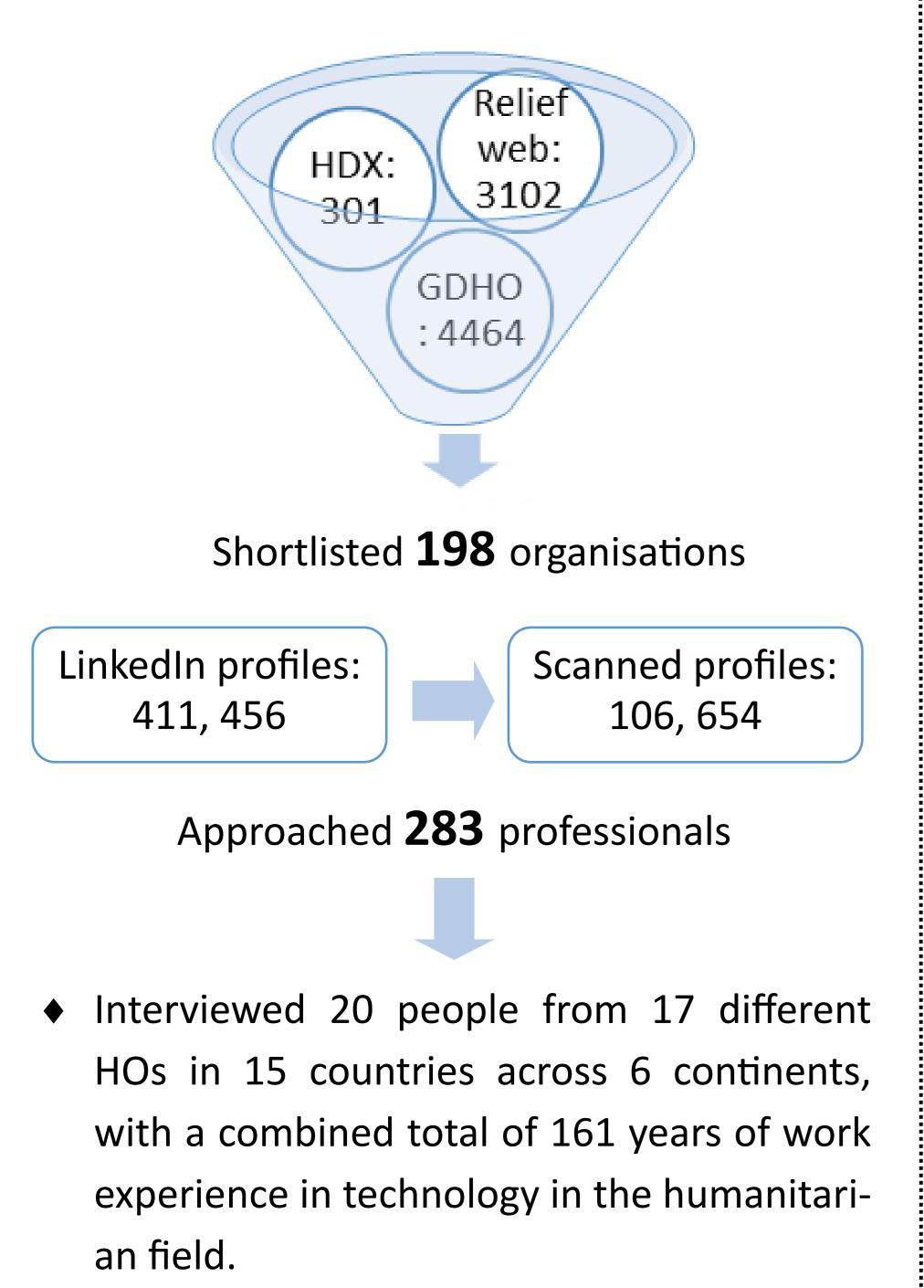
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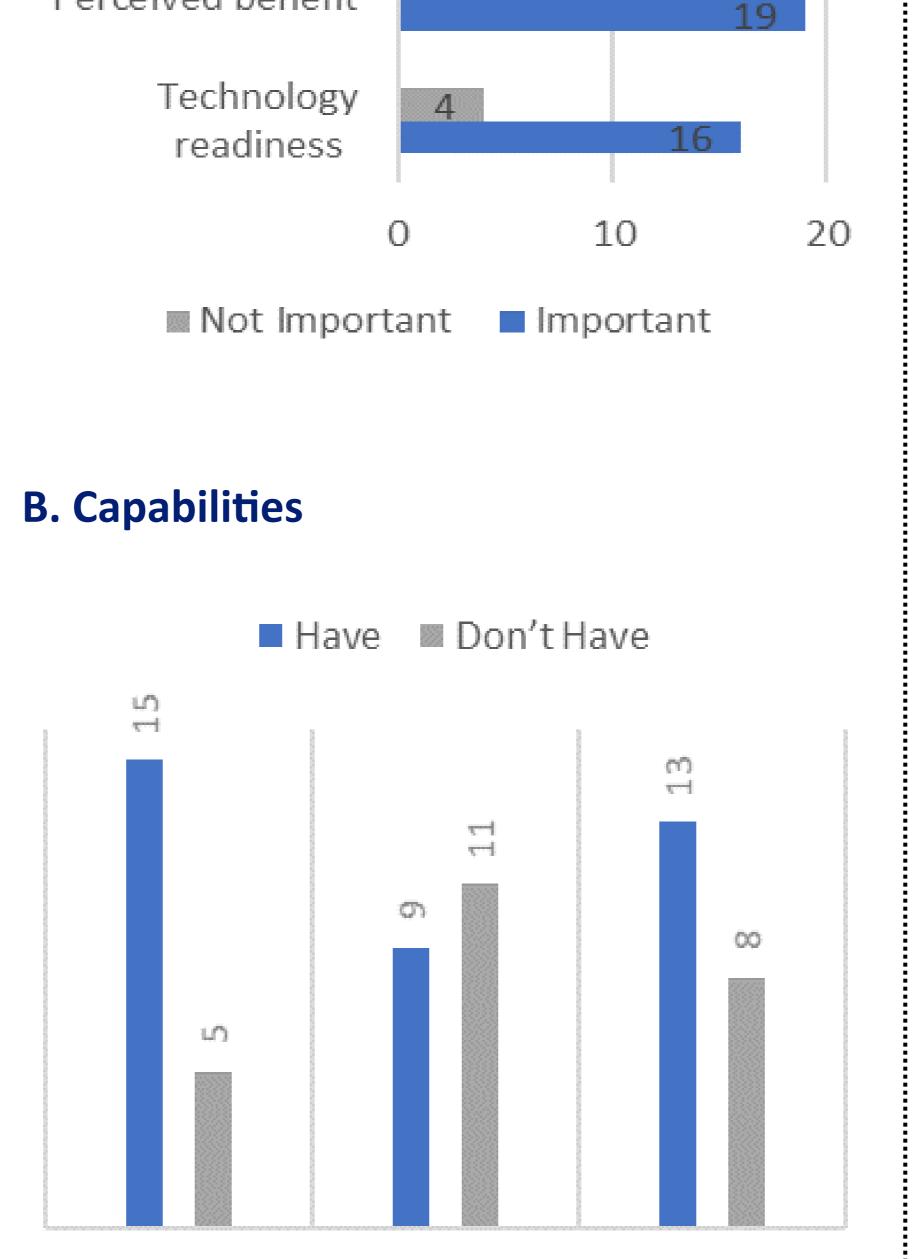
2. Objective

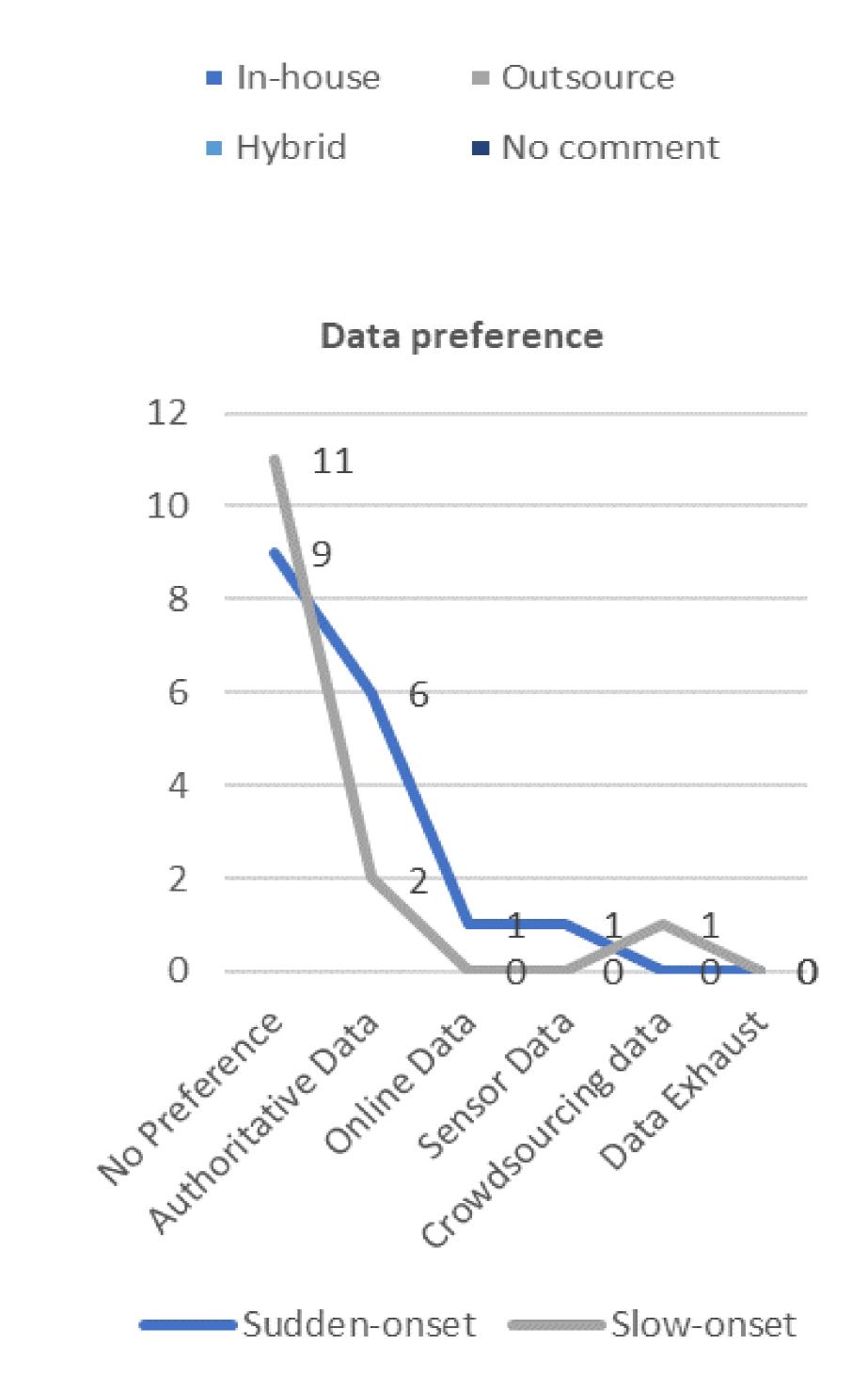
 The purpose of this research is to better understand BDA adoption in HOs, what capabilities they require, how the adoption might operate and what impacts it will have.

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.



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