Big Data Training Survey

Preliminary results for AI aspects

Joint HMA/EMA Workshop on Artificial Intelligence in Medicines Regulation

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Outline

- Background
- Objectives and participants
- Preliminary results
- Conclusions

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Background

- **'EU Network skills'**: Recommendation #4 in Big Data Steering Group work plan
- Existing training initiatives in the EU Regulatory Network:
  - '**Biostatistics & Clinical Trial Methodology** for regulators' curriculum (*developed*)
  - 'Use of **Real-world evidence** for regulatory purposes' curriculum (*developed*)
  - '**Data Literacy** for regulatory purposes' curriculum (*under development*)
  - Until finalisation of the three curricula, A **Big Data training signpost** is available.
- Questions:
  - Are there any gaps in the training curricula and signpost?
  - Which training modules to prioritise for development and delivery?

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Survey overview

Objectives:

- Validate the scope of the three training curricula.
- Identify Big Data skills gaps and training needs in the EU Regulatory Network.
- Obtain feedback on the priority of the delivery and roll-out of trainings on Big Data skills.

Participants:

- 4715 experts in the EU Regulatory Network were invited to participate.
- 832 (17.6 %) responses were received.
- Response distribution by domain:
  - Human: 68 %
  - Veterinary: 18 %
  - Both: 13 %
  - Not defined: 1 %

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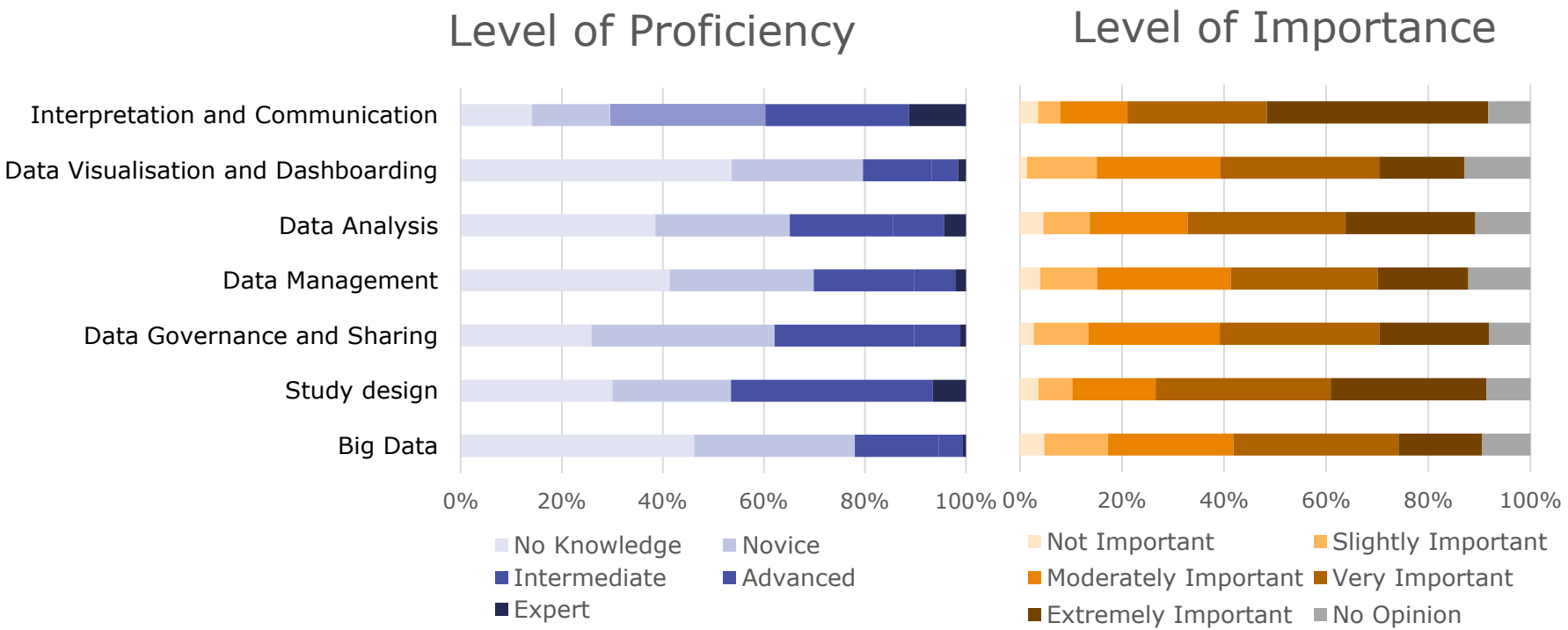
Preliminary results (1/3)



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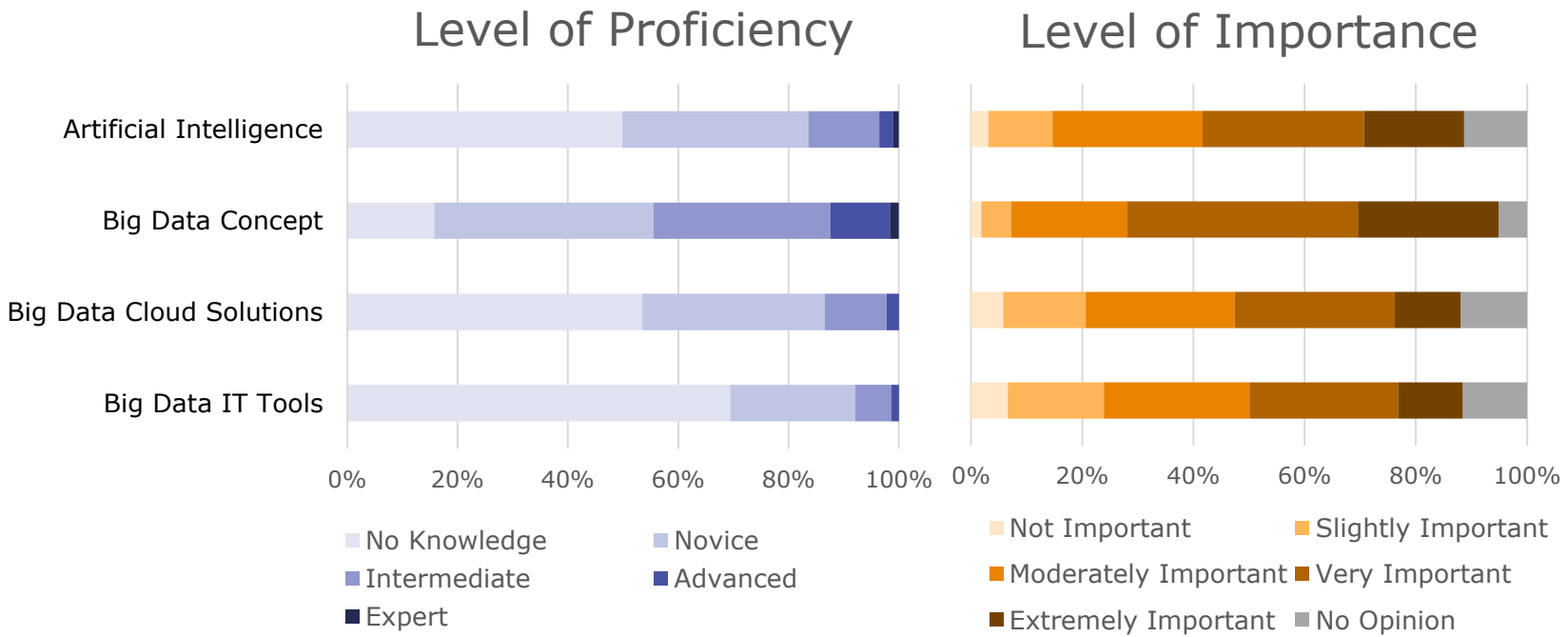
Preliminary results (2/3)



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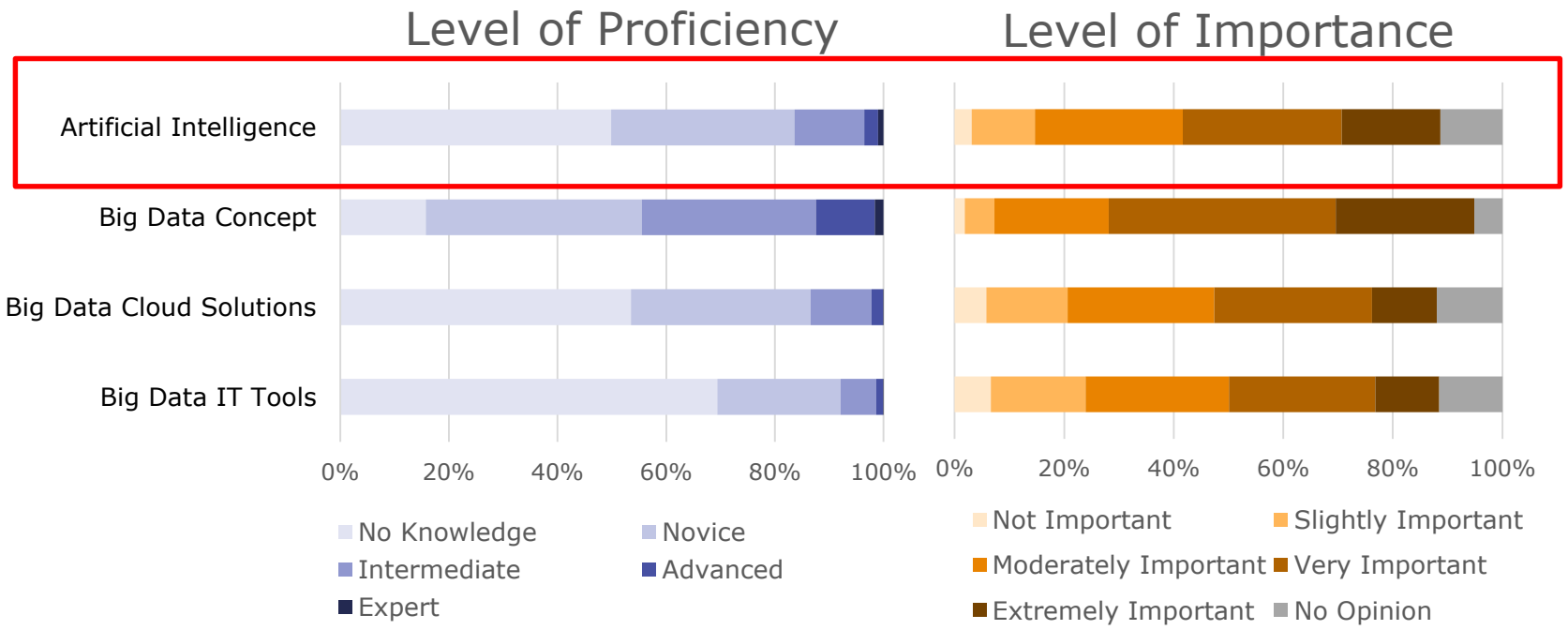
Preliminary results (2/3)



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Conclusions

For the **Big Data** – **Concept**, **IT Tools** and **Cloud Solutions**, and **Artificial Intelligence** skills:

- Majority of the respondents have **no knowledge** or are **novices** with regards to listed skills
- Majority of the respondents consider it **at least moderately important** to develop training modules in these skills
- Among respondents there is an apparent **discrepancy** between the **reported skills** and the **perceived importance** of Artificial Intelligence as a topic.

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Any questions?

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