

Leveraging mCODE to Enable an Interoperable Ontology for Oncology Digital Twins

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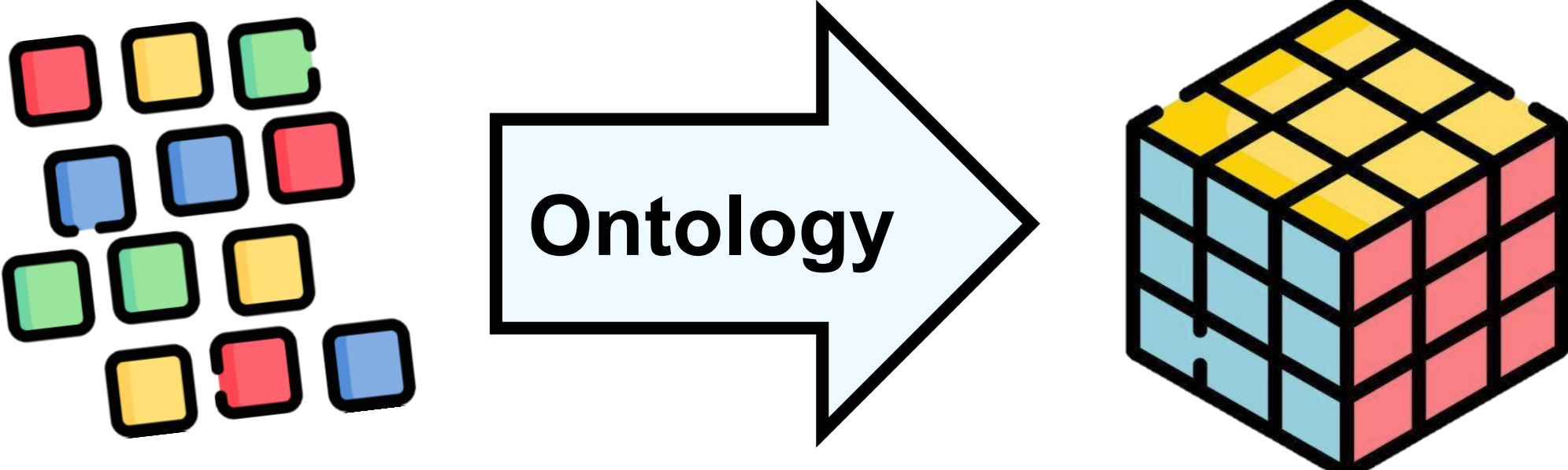


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INTRODUCTION

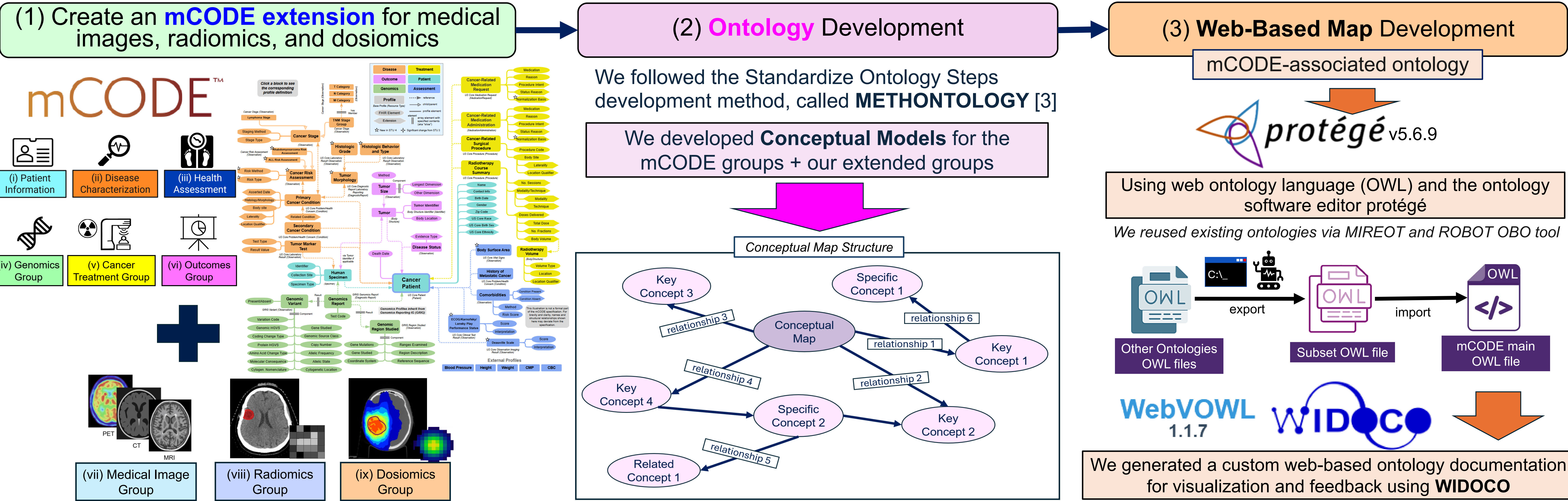
Clinical centres store patient data using **institution-specific** methods, potentially creating bias by limiting cross-institution learning. **Data standards** offer agreed-upon formats, but their adoption is **limited** [1].

To help solve this issue, we built a semantic data model—an **ontology**—designed to standardize oncology knowledge.

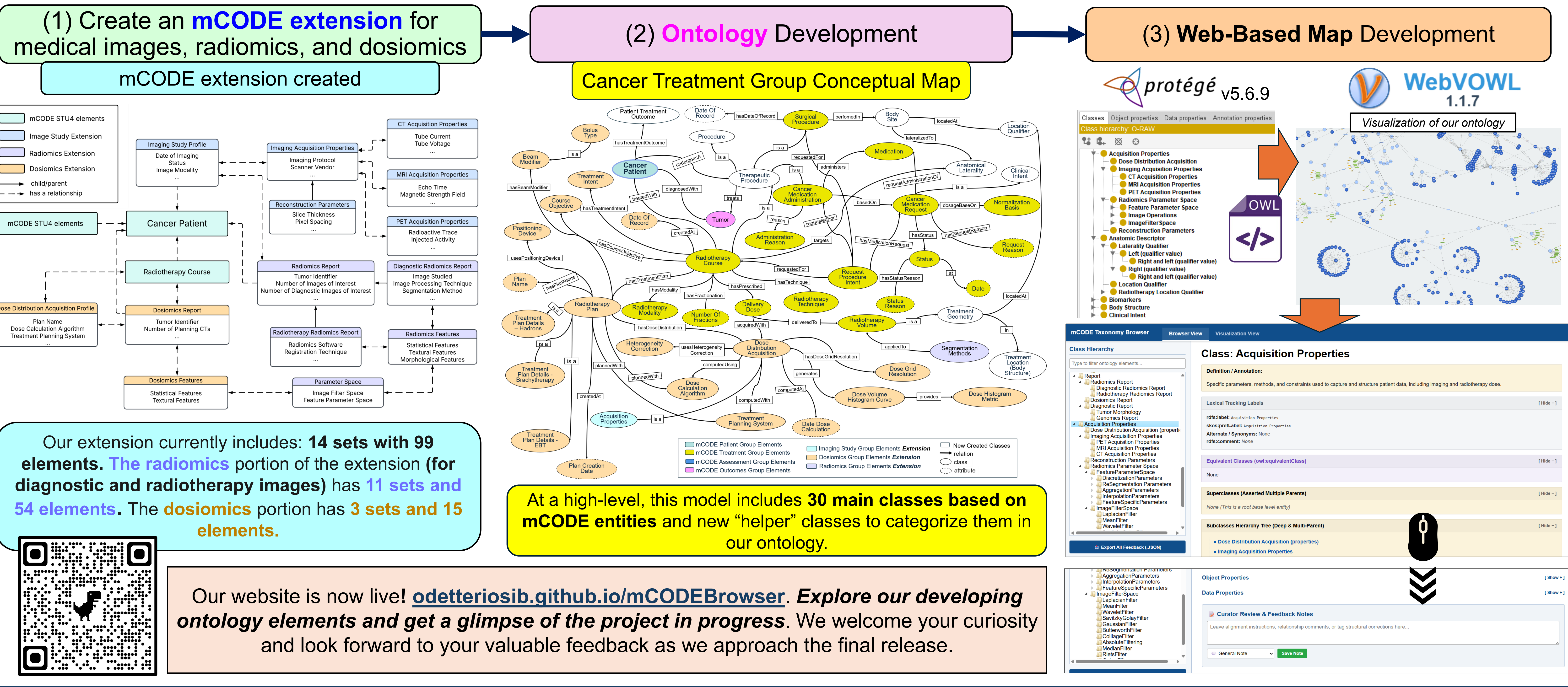


Messy data elements → Clear organized

MATERIALS AND METHODS



RESULTS



CONCLUSIONS AND FUTURE WORK

- This study introduces a **novel framework** for **cancer data structure, standardization, and potential data sharing**.
- These results **set the path** for our **multi-omics** research study by facilitating **multicentre datasets**.

REFERENCES

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