

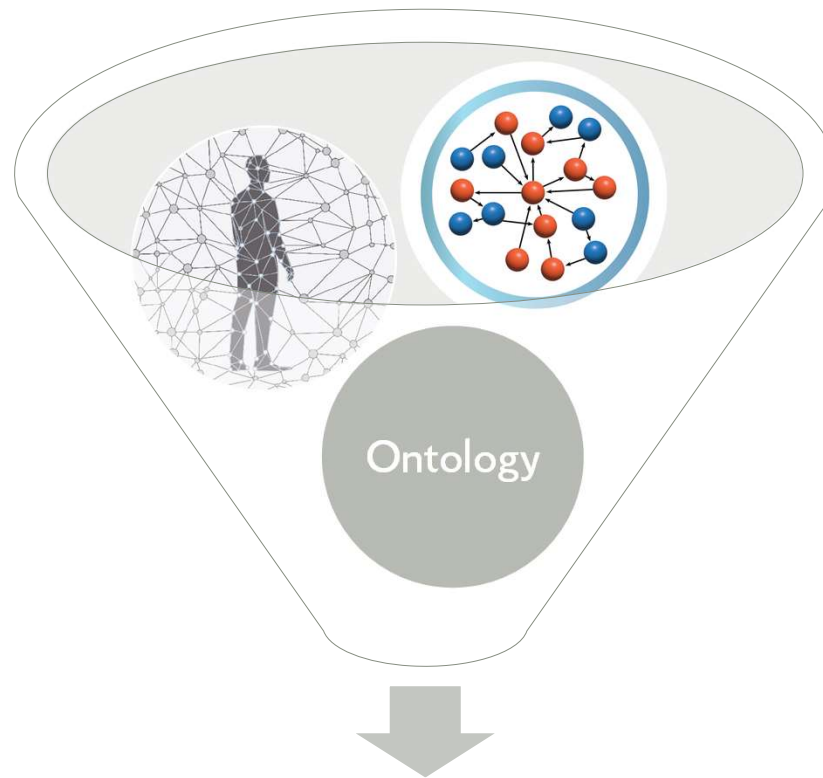
CM 01

Knowledge Graphs for Clinical Trials

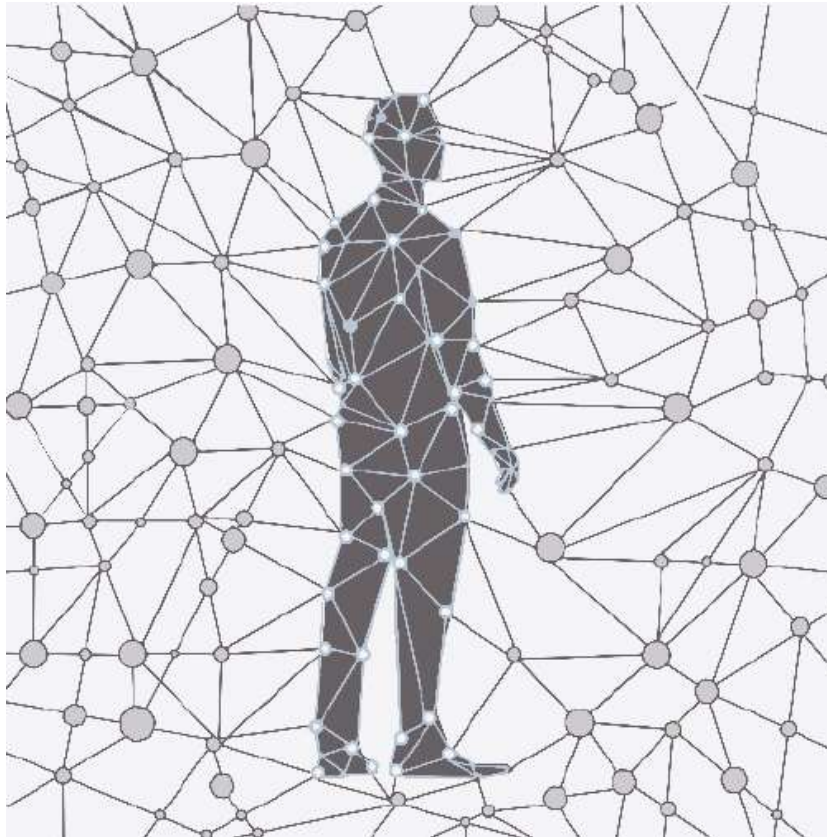
Eva Kelty



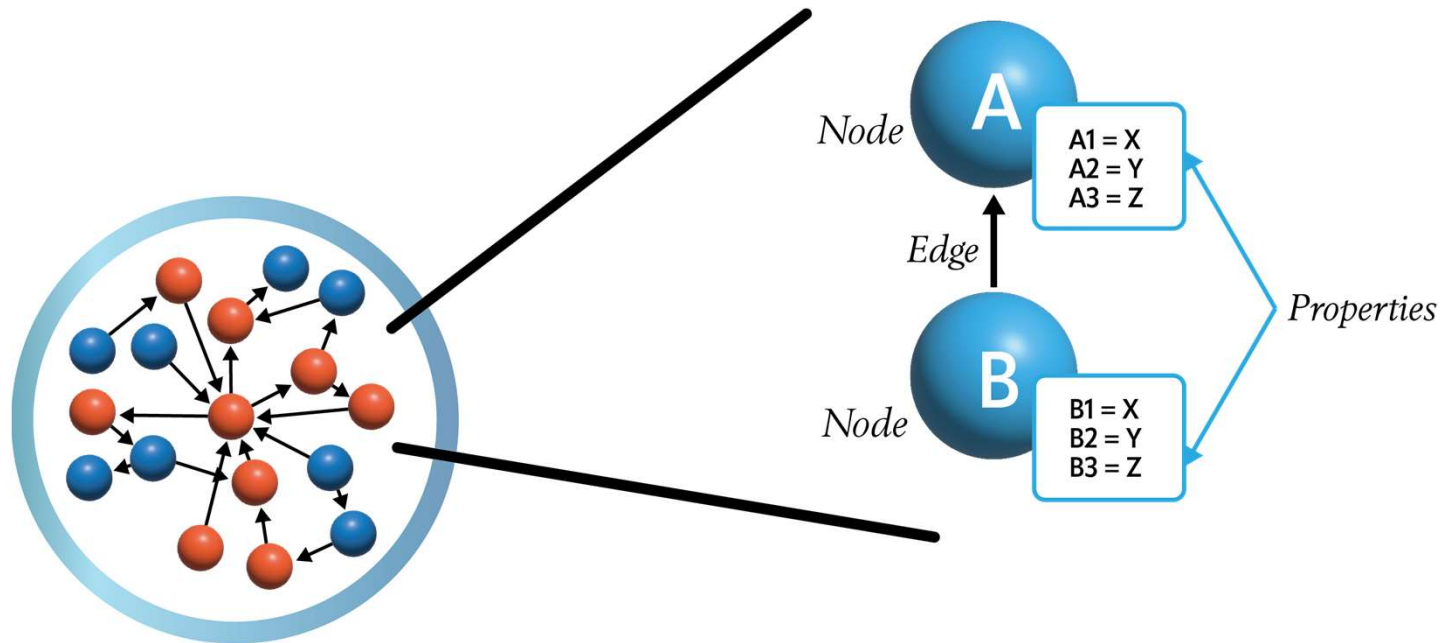
...with Capish you can.



Knowledge Graph



Property Graph Database



Ontology – Definition

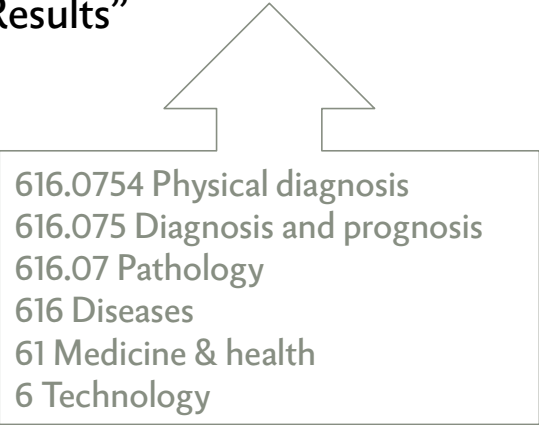
From Wikipedia...

“...a representation, formal naming, and definition of the categories, properties, and relations between the concepts, data, and entities that substantiate one, many, or all domains of discourse.”

Capish Ontology - Example

Body Height.Results

- *Concept* – "Body Height"
- *Domain* (Dewey code) – "616.0754 Physical diagnosis"
- *Holon type* – "Body Height.Results"



616.0754 Physical diagnosis
616.075 Diagnosis and prognosis
616.07 Pathology
616 Diseases
61 Medicine & health
6 Technology

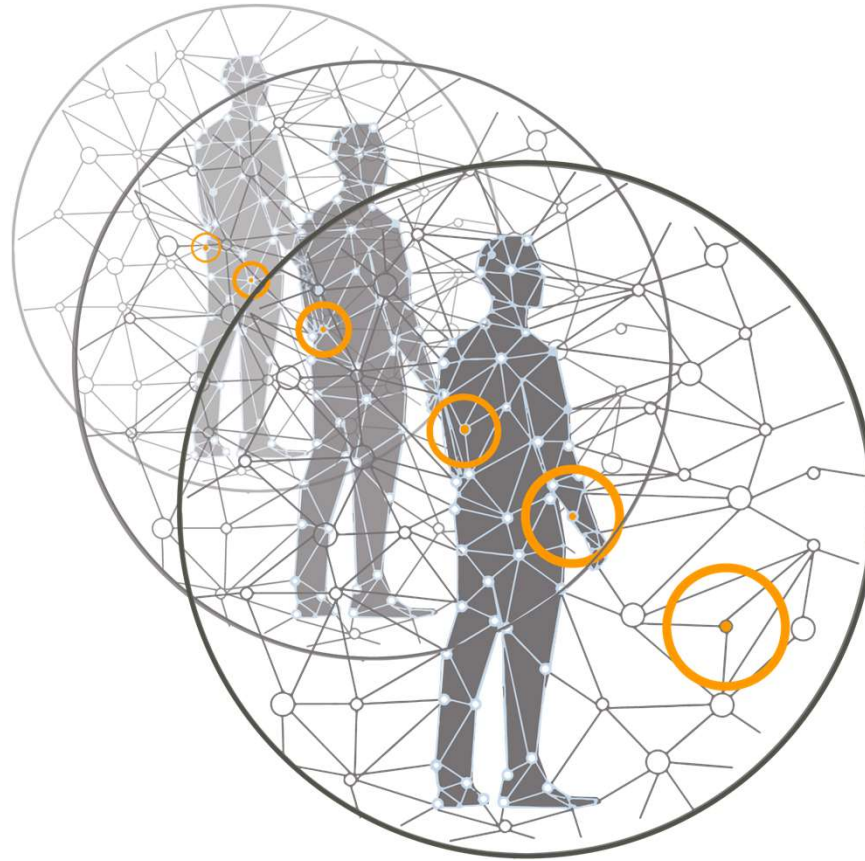
Information
Concept: Body Height Domain: 616.0754--dc23 Holon: Body Height.Results
Description Results of a Measurement of the Body Height
Fields Body Height Date Planned Day, In Study Study Patient Id Date.Note
Relations Study Patient Study Visit

Ontology

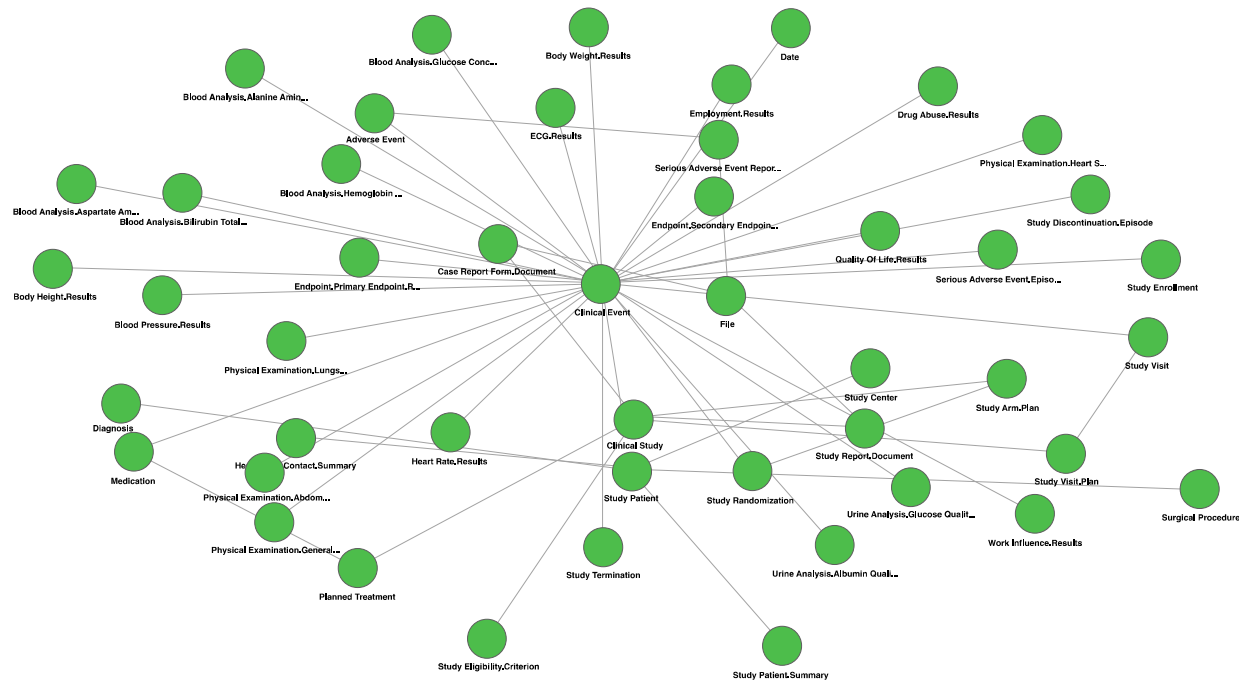
Meta Data for Understanding

Standardization for Consistency

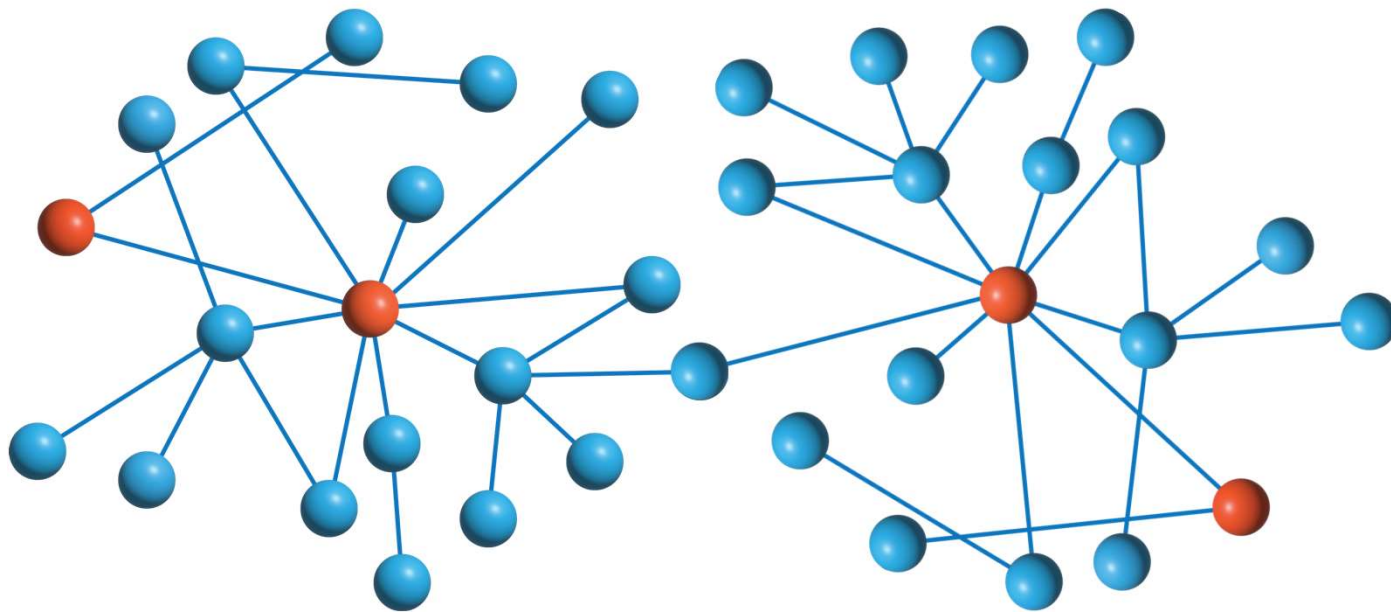
Structure for Exploration/Visualization



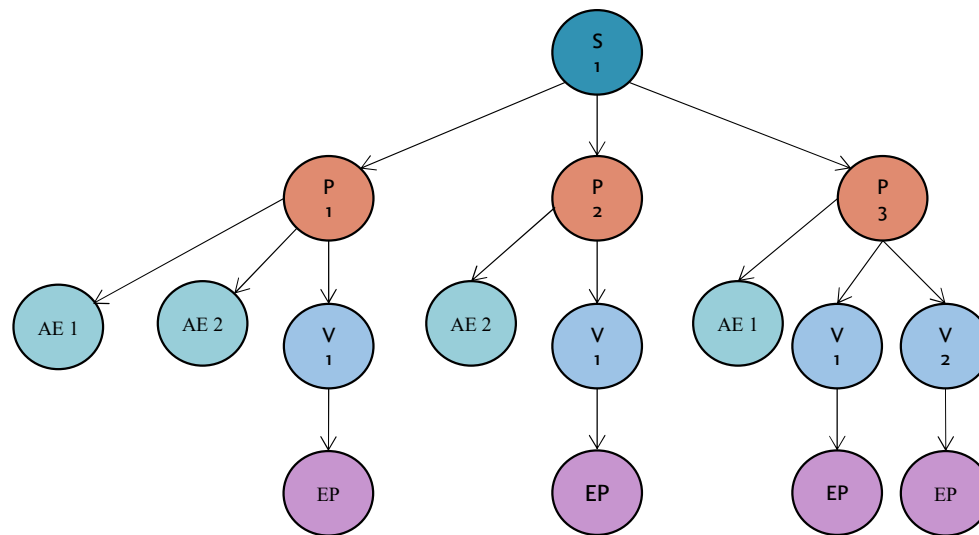
Knowledge Graph



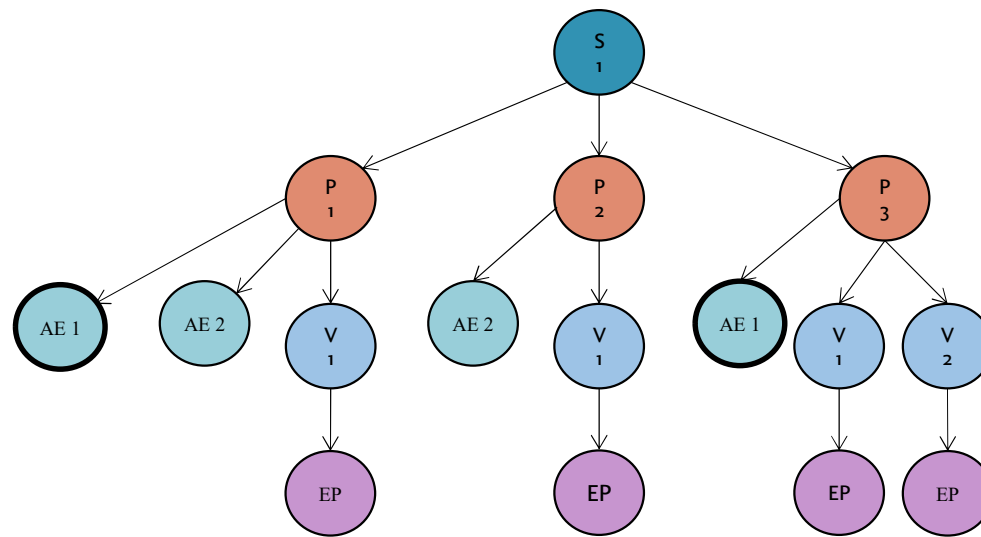
Knowledge Graphs



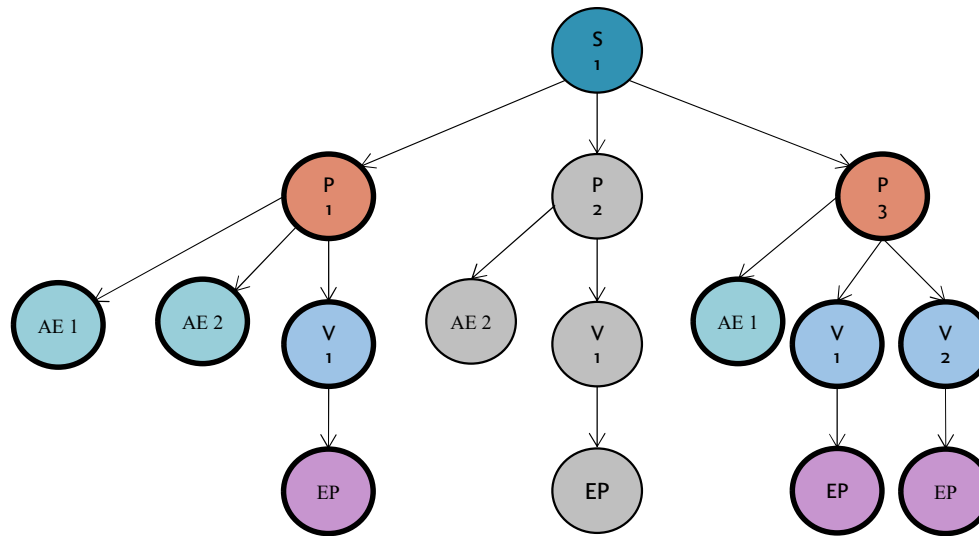
Example



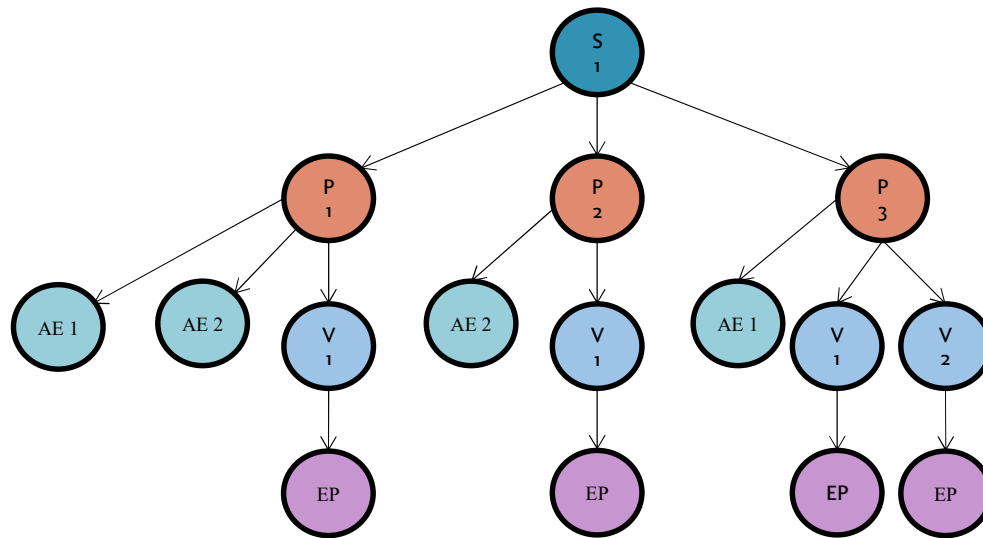
Example: AE 1

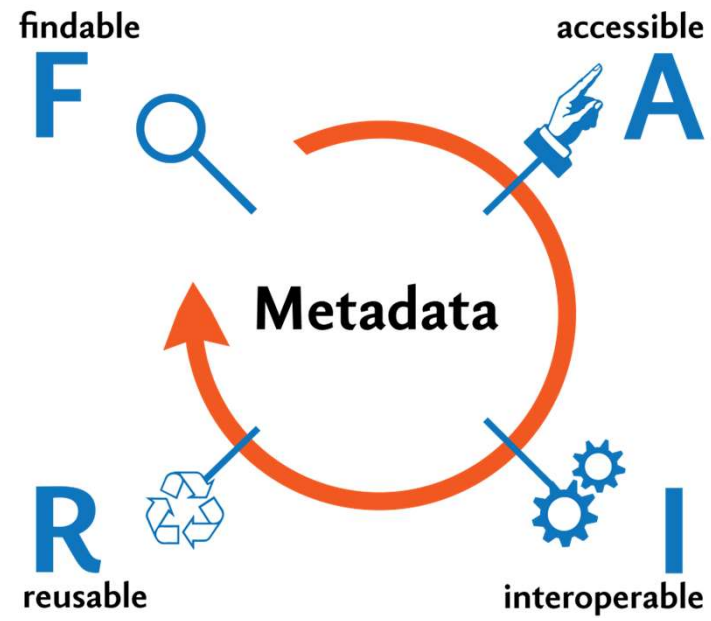


Example: Patients with AE 1



Example: Studies with AE 1





LIVE EXAMPLES

In Conclusion...



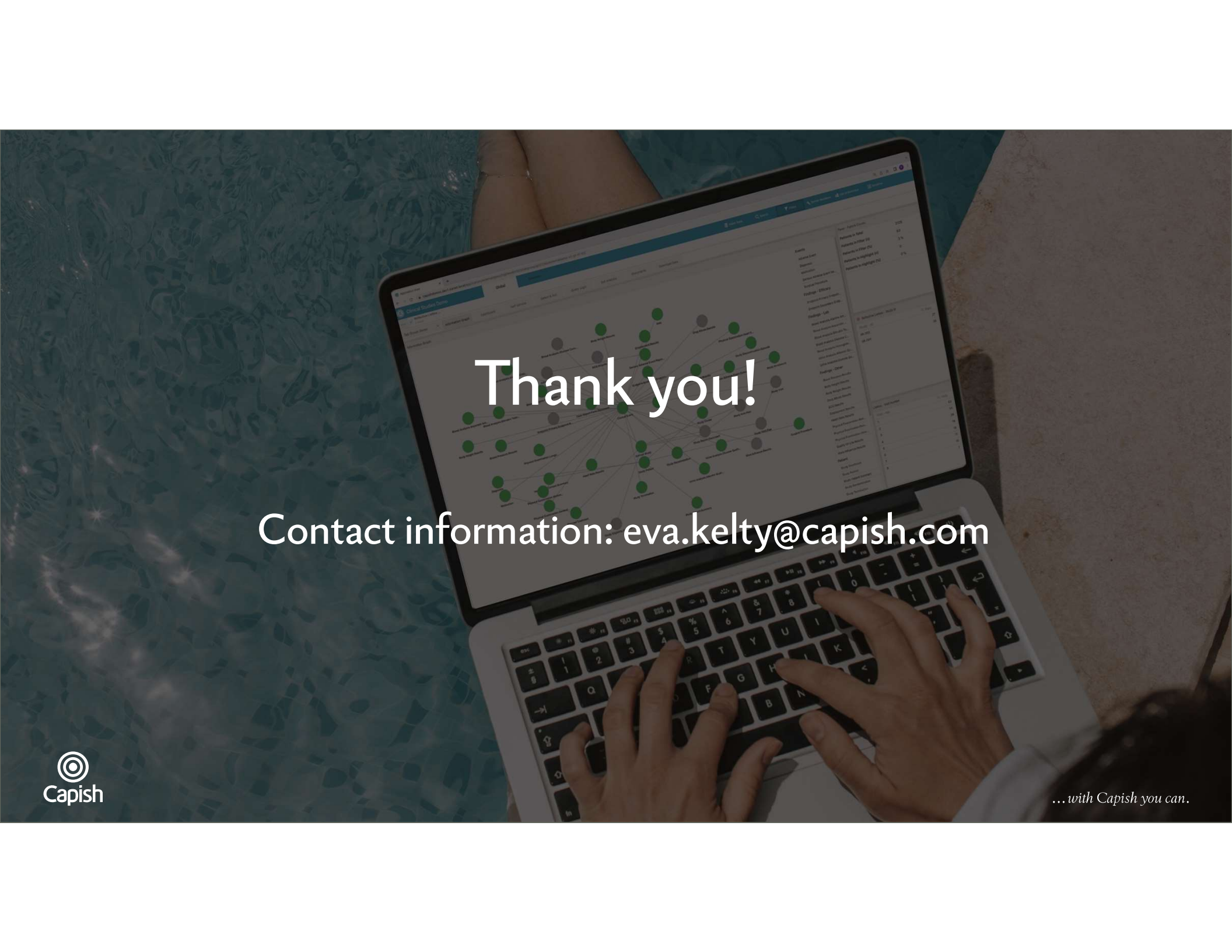
Structure



Collaborate



Innovate



Thank you!

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