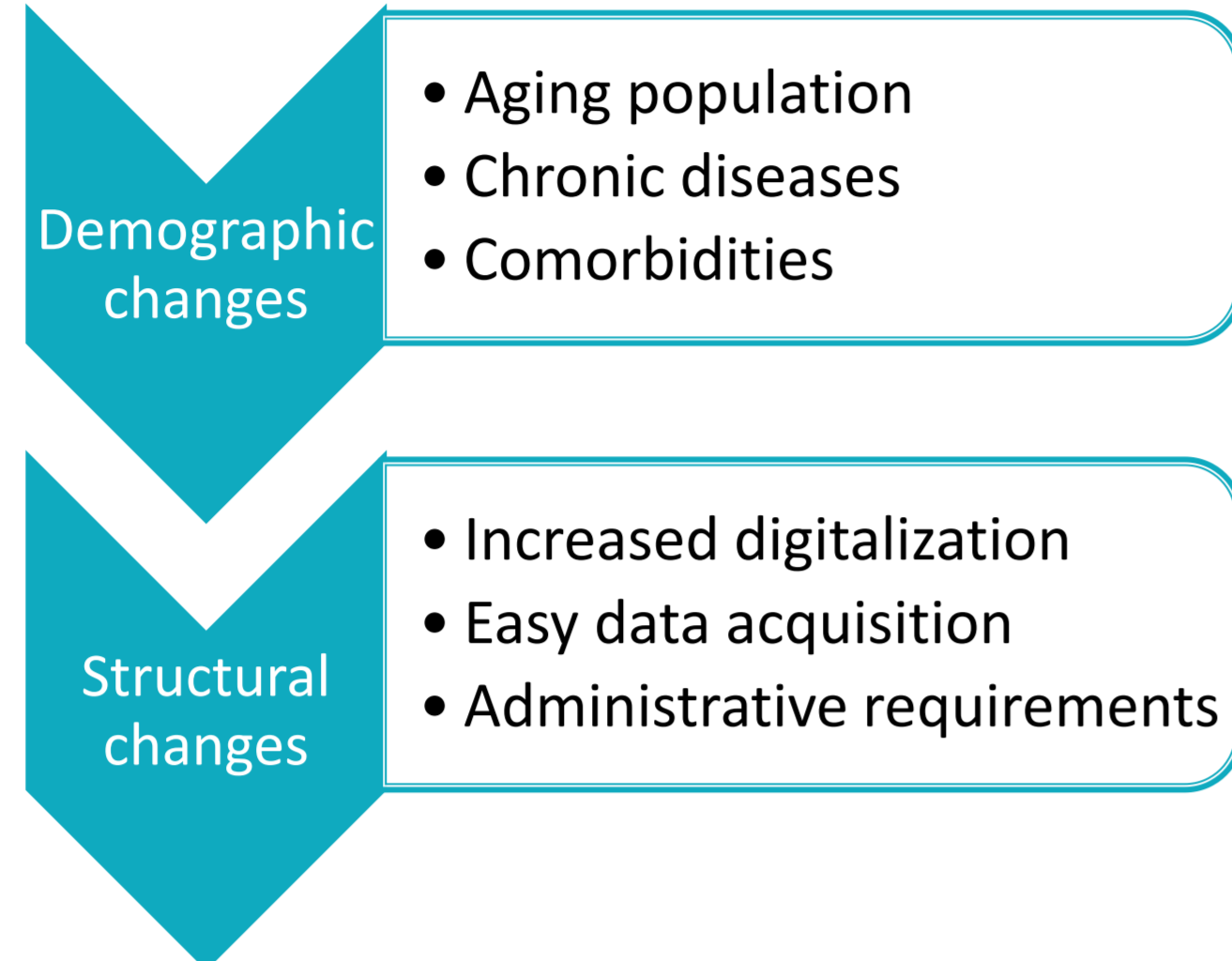


Summarizing the Patient Record: a Hybrid Approach

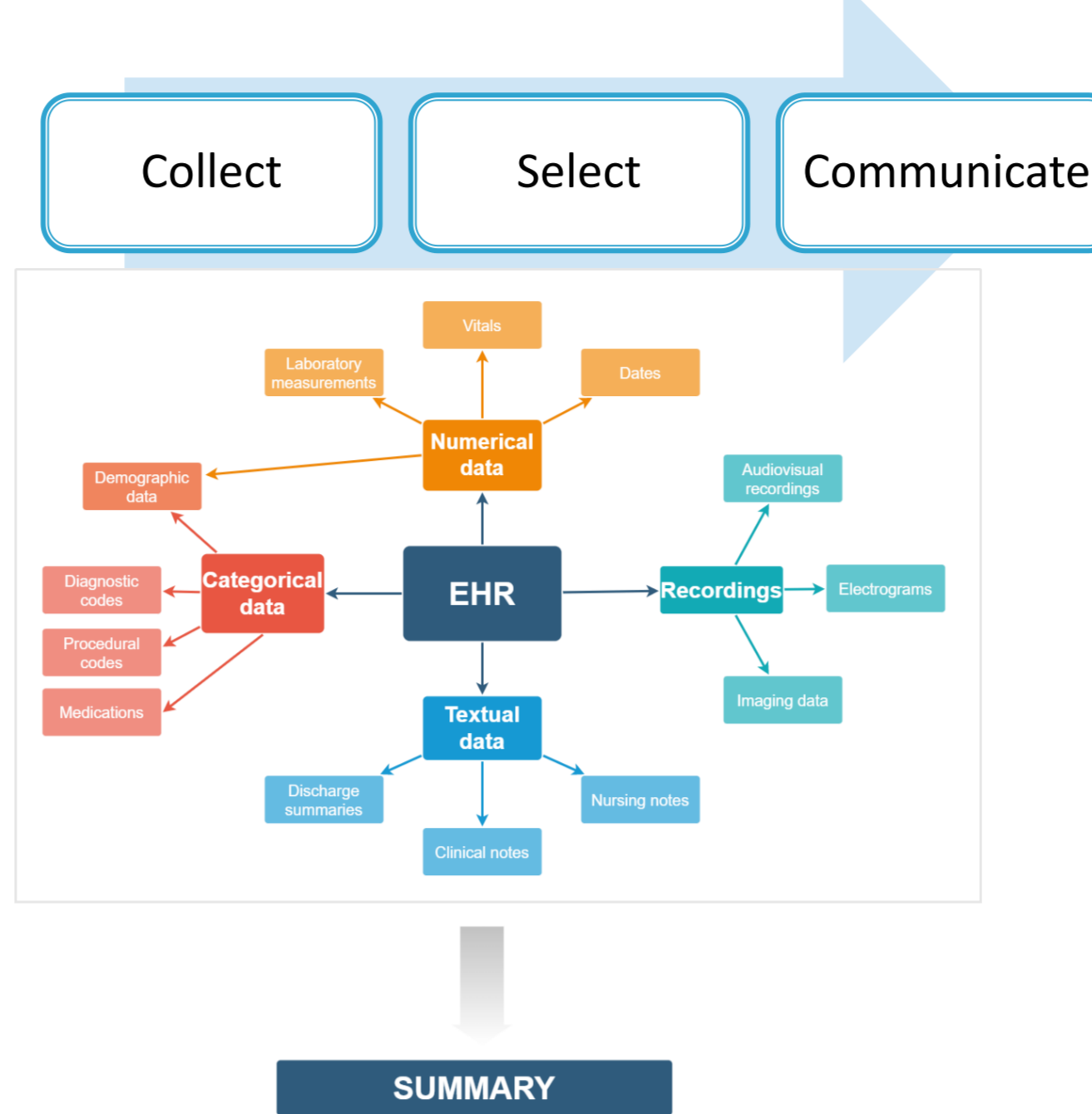
Daniel Keszthelyi, Mina Bjelogrić, Christophe Gaudet-Blavignac, Christian Lovis

BACKGROUND

Healthcare professionals face an increasing pressure in everyday practice when handling the exponentially growing information registered in the patient record (EHR).



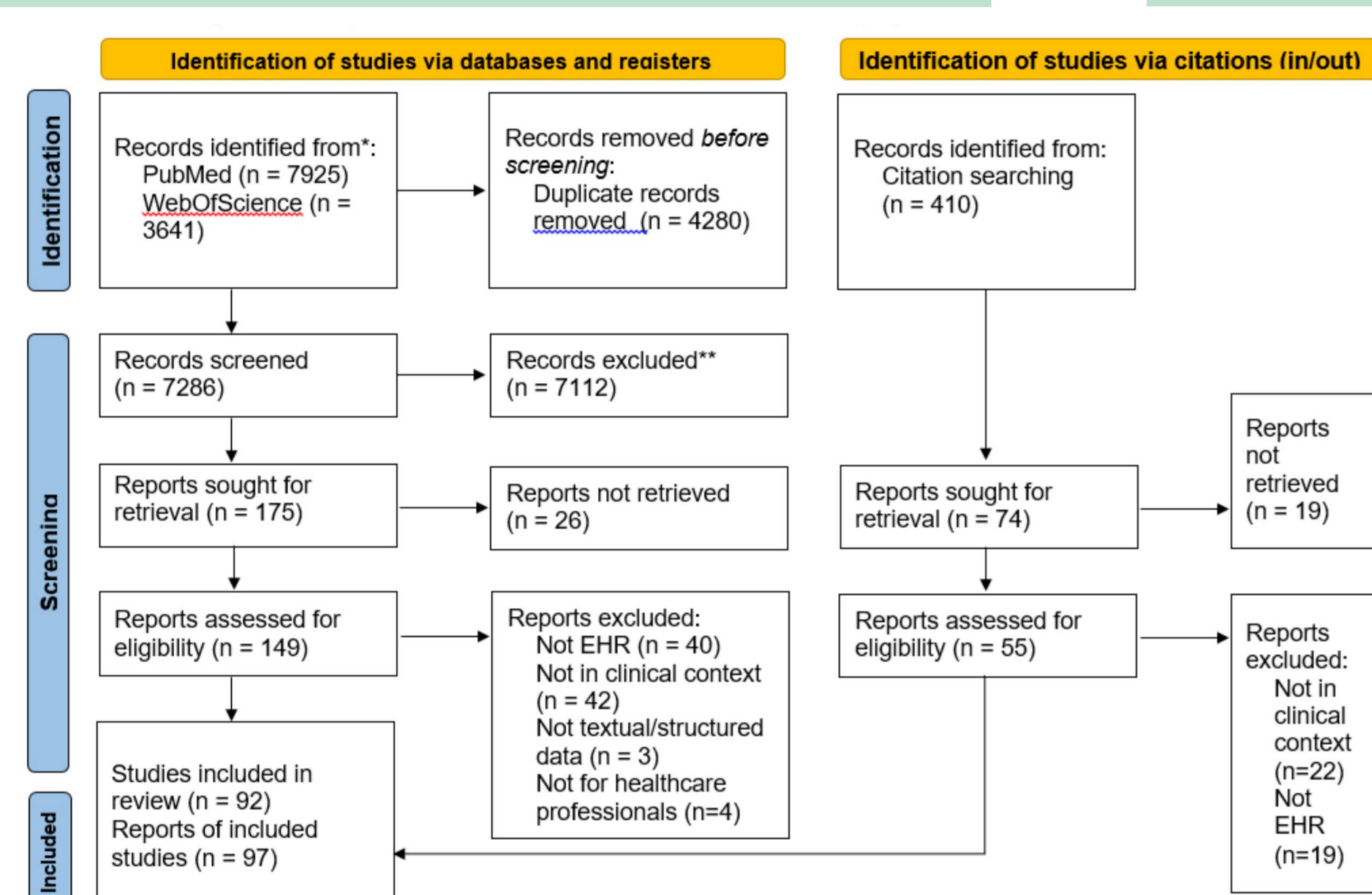
Summarization can help to leverage the problem.



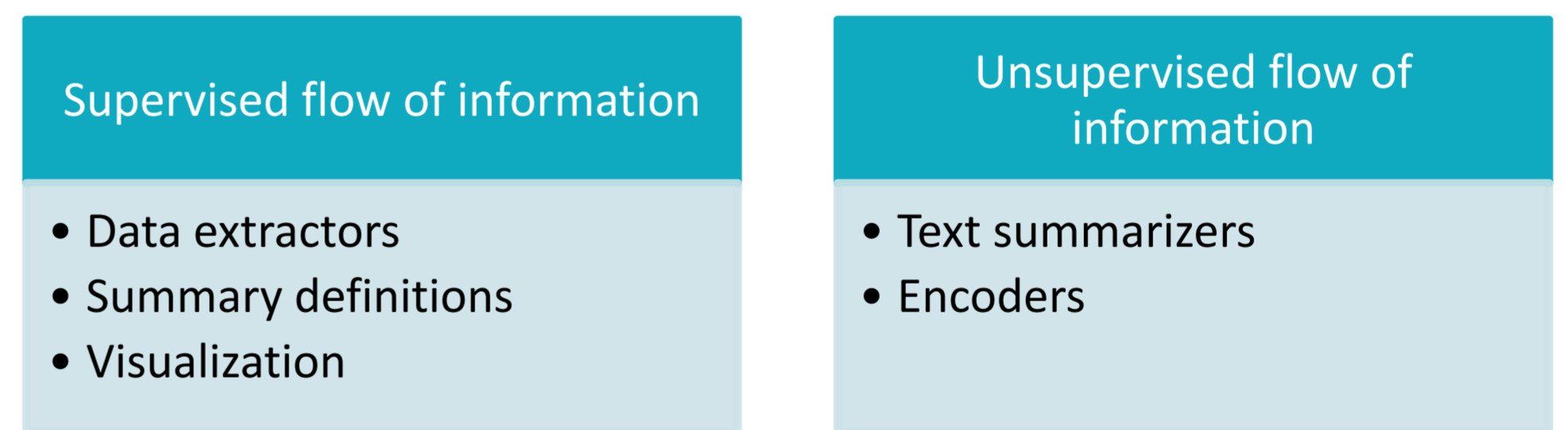
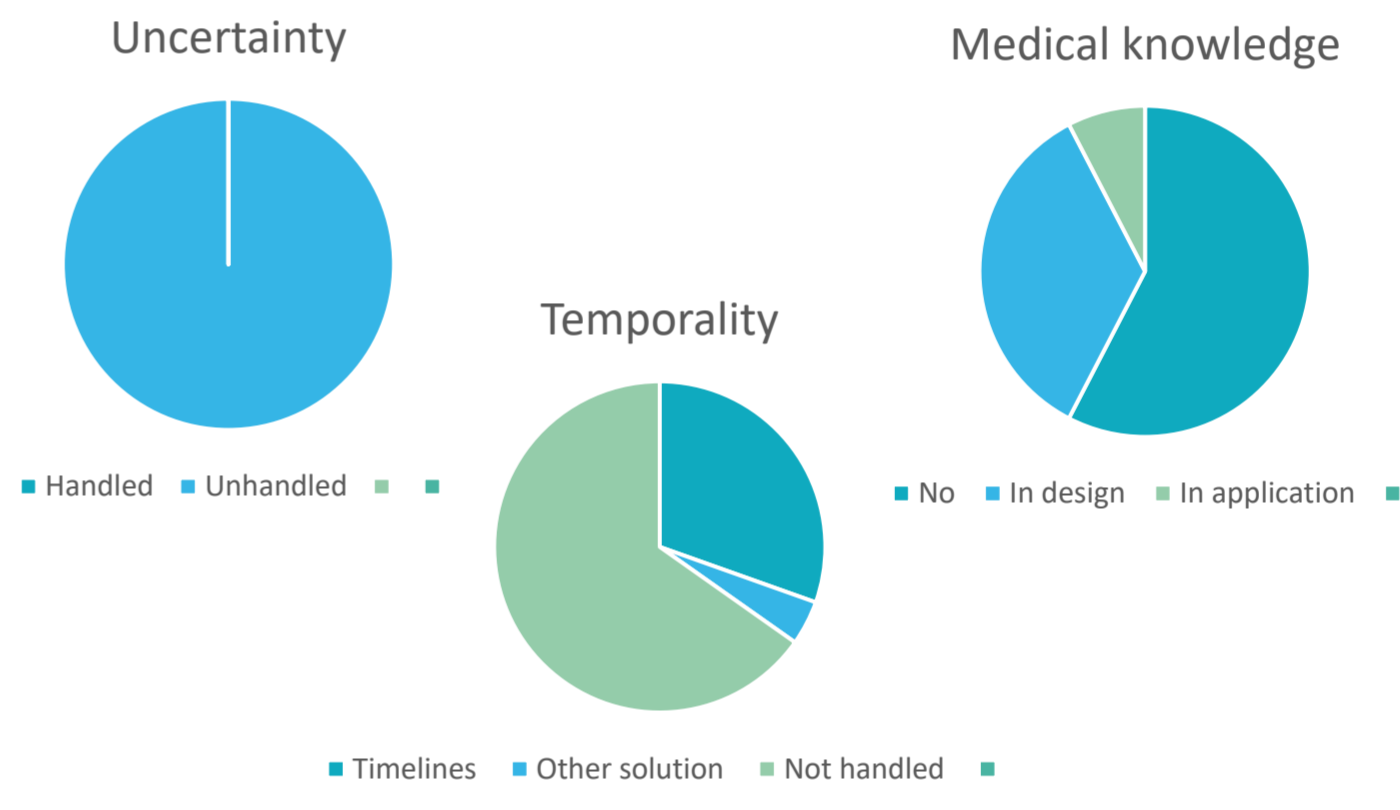
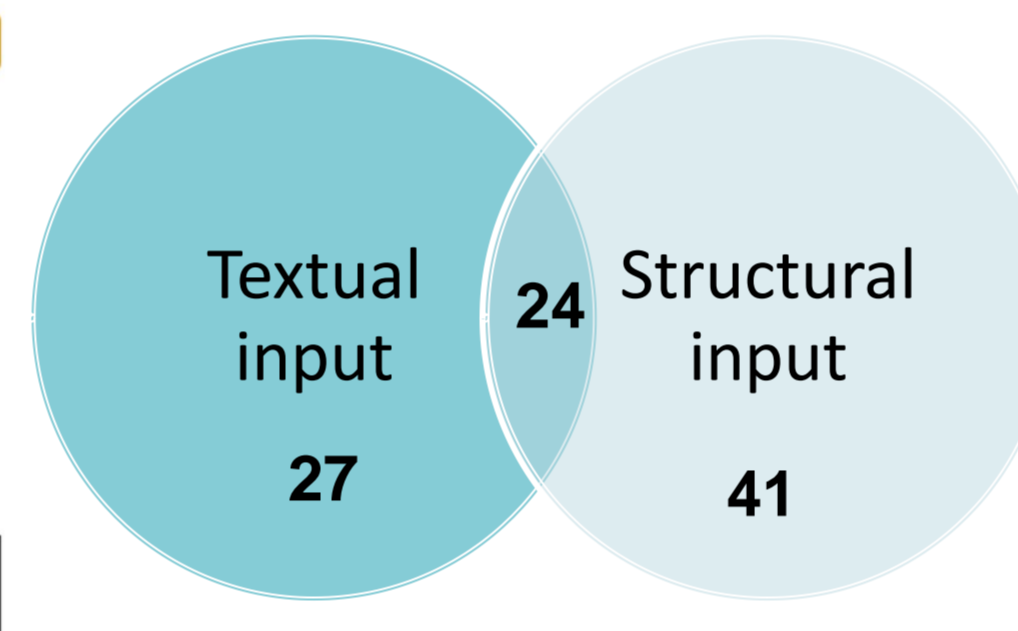
Challenges of summarization:

- Heterogeneity
- Temporality
- Temporal uncertainty
- Data uncertainty
- Sparsity
- Data security
- No correlation between:
 - data volume & information content
 - information frequency & information content

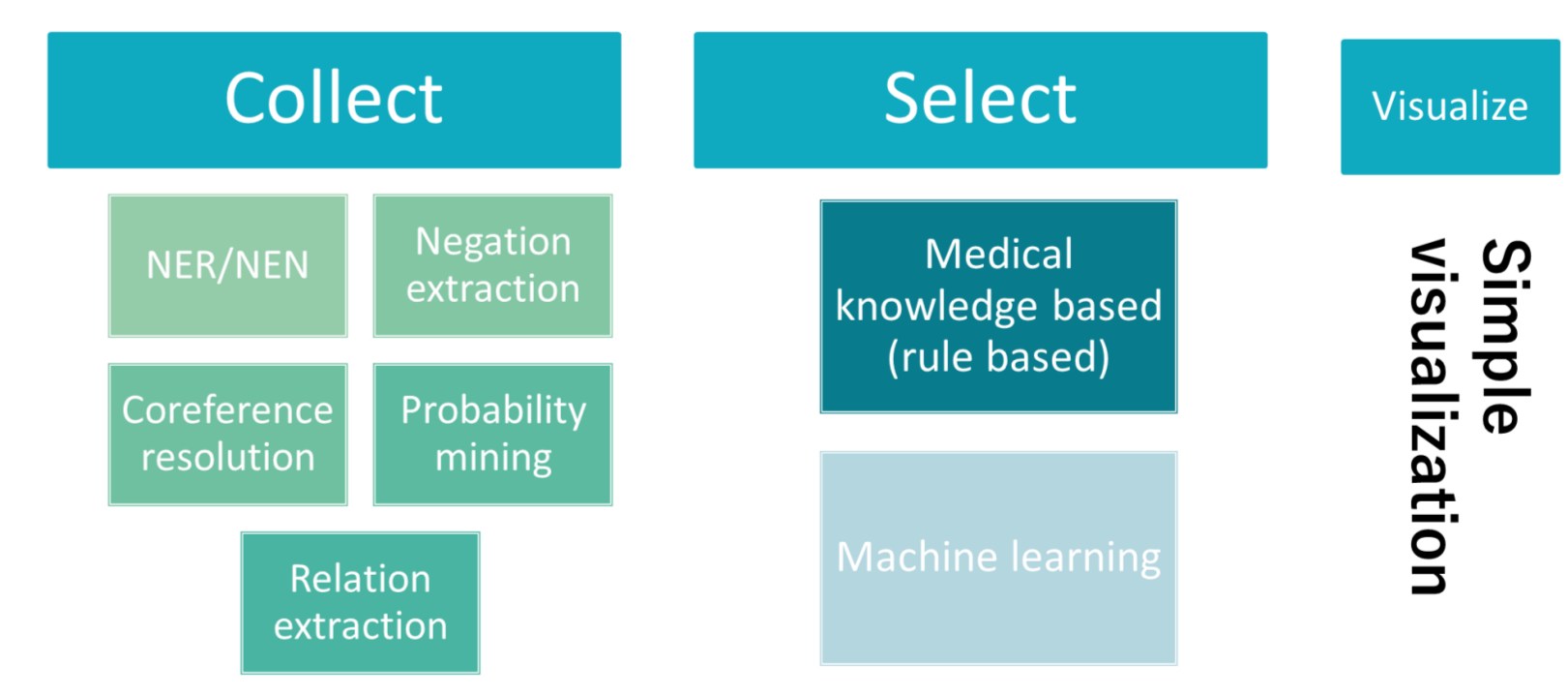
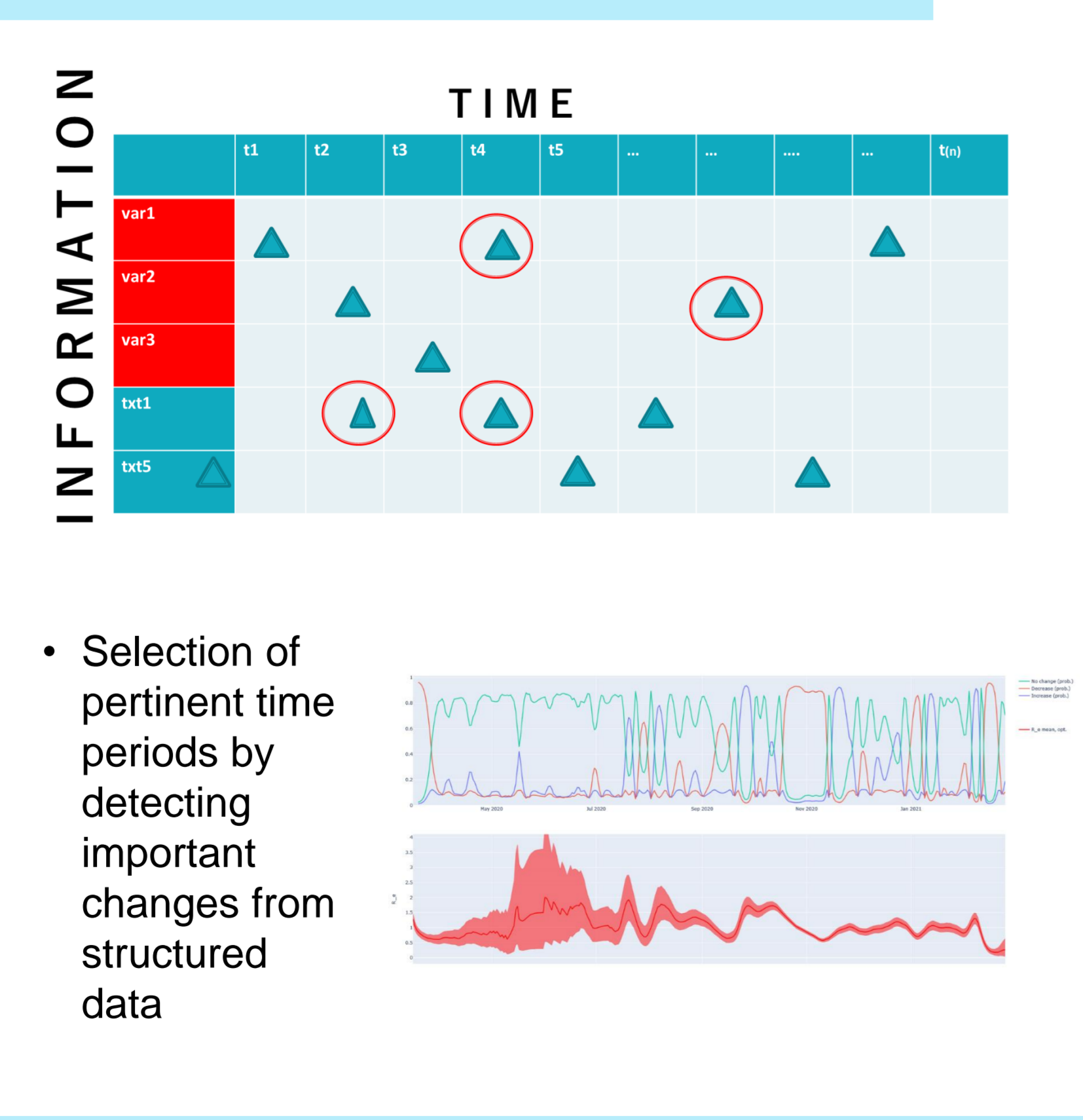
SCOPING REVIEW



Prisma diagram of the scoping review. The used search term was: ("ehr" OR "emr" OR "health" OR "patient" OR "medical" OR "hospital" OR "healthcare" OR "medical records"[MeSH Terms]) AND ("summarization" OR "summarisation" OR "summarizing")



PROPOSED SYSTEM



- OUTLOOK**
- Intrinsic evaluation of the subsystems
 - Combine and relate information from structural and textual data
 - System deployment
 - Satisfaction + Functionality
 - User evaluation by health care professionals