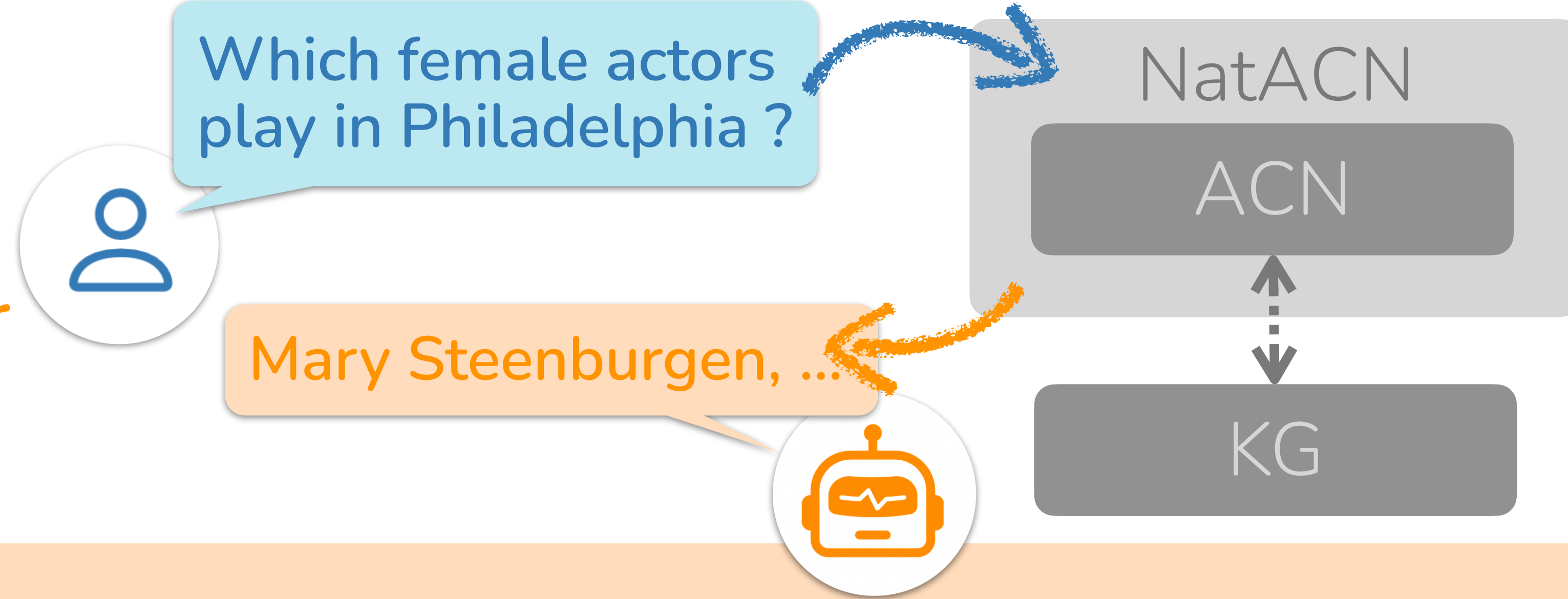


NatACN a natural language interaction system

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Related Works:

Dialogue systems (DS):

[Deriu et al., 2020] ++ --



Controlled Language (CL), Query Builder (QB):

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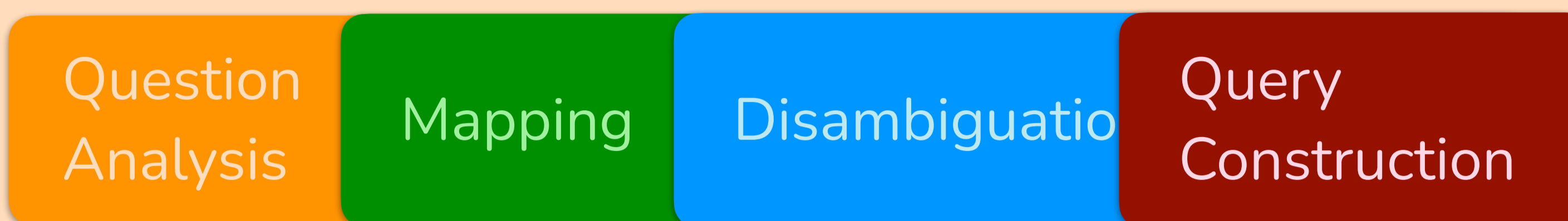
SWiPE [Atzori et al., 2012]

CANaLI [Mazzeo et al., 2016]

Sparklis [Ferré, 2014] ...

Question answering (QA): + -

[Diefenbach et al., 2018]



Spontaneity for user
 Result accuracy

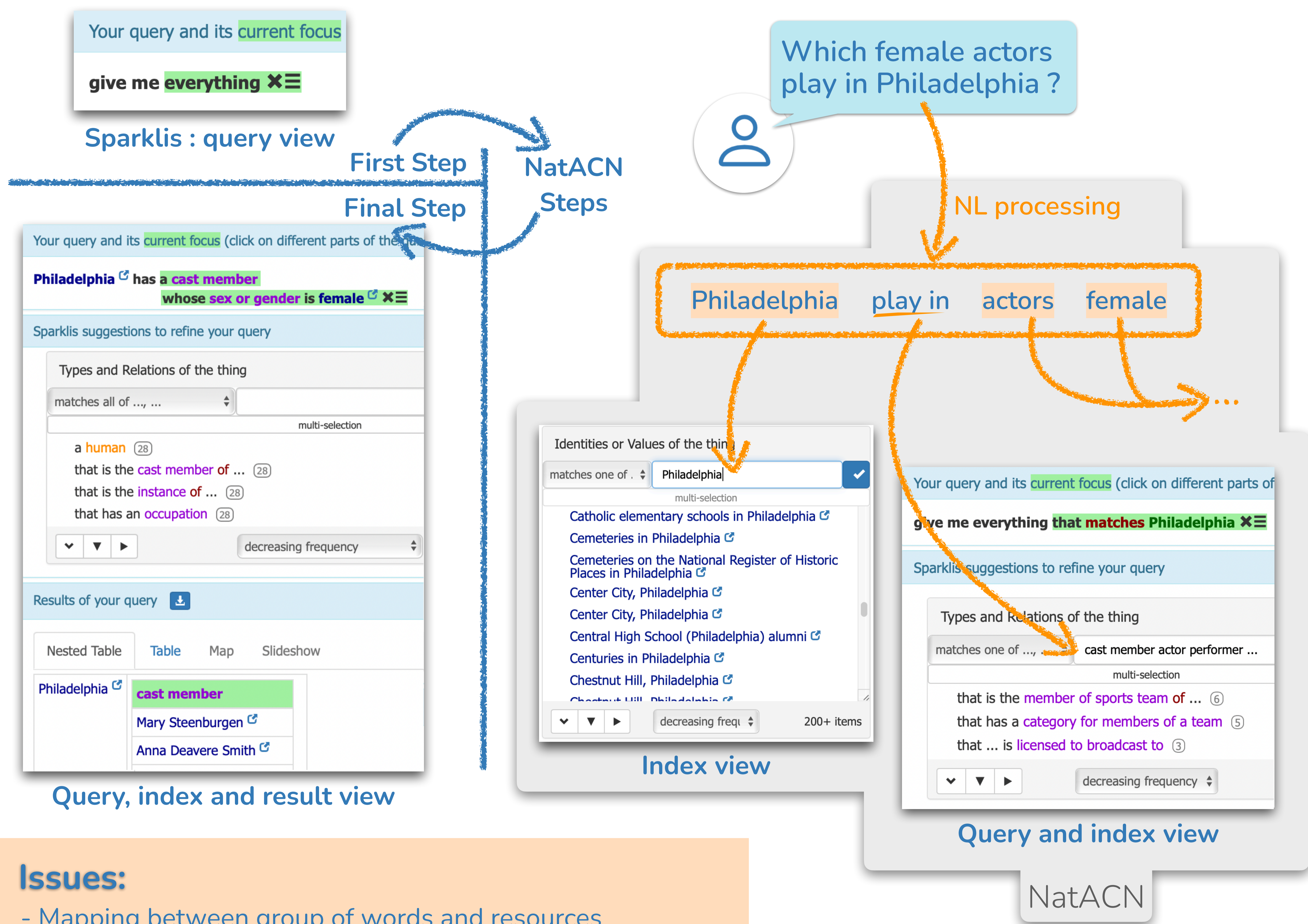
Objectives:

Create a natural language (NL) interaction system which pilots an ACN system over a knowledge graph to explore it. Then:

- ACN improves accuracy < QA | DS
- NL improves spontaneity < QA | CL/QB

Definition:

ACN system: interaction system for guided query building: e.g., Sparklis



Issues:

- Mapping between group of words and resources
 - "Date of birth" dbo:birthdate
 - "German" dbo:country / dbr:Germany
- Insertion Order of words in Sparklis (complex question)
 - Taking into account syntax
 - Implicit steps to add (e.g., focus change)
 - Combinatorial problem