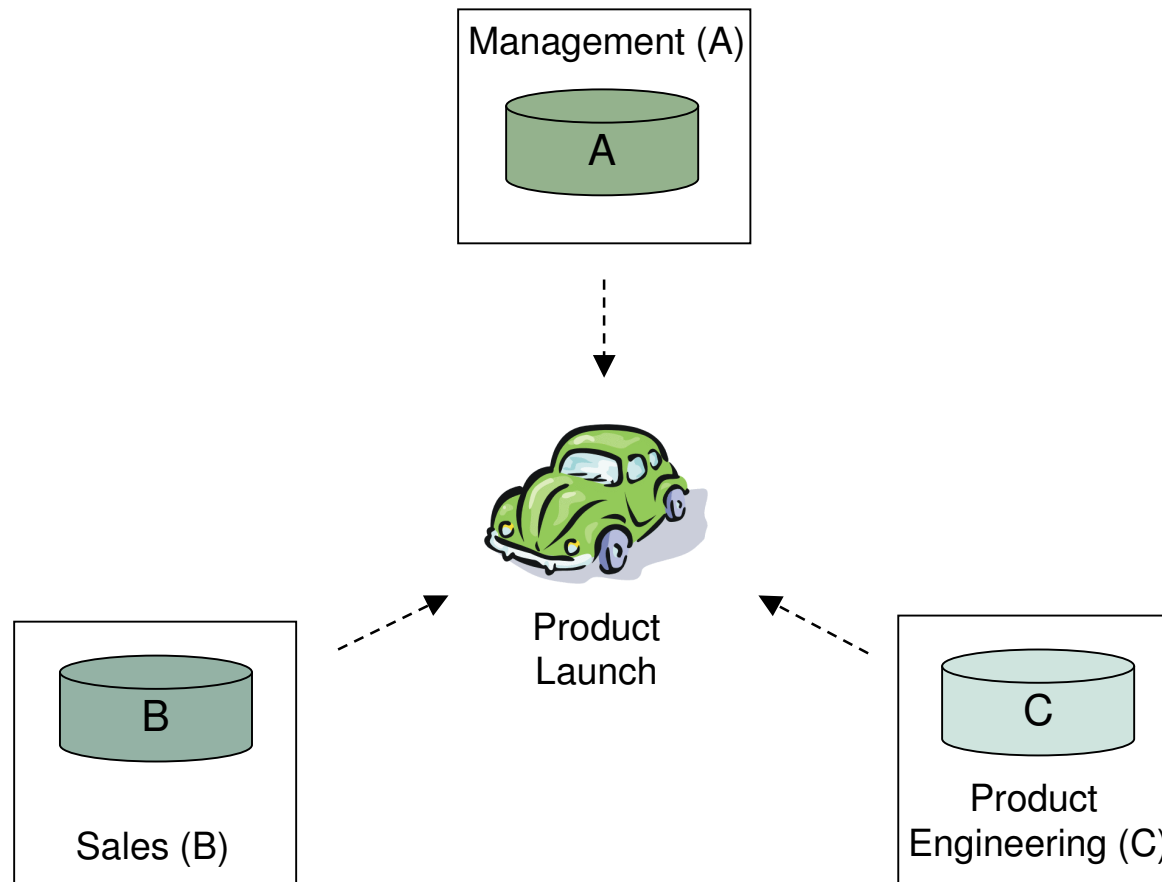


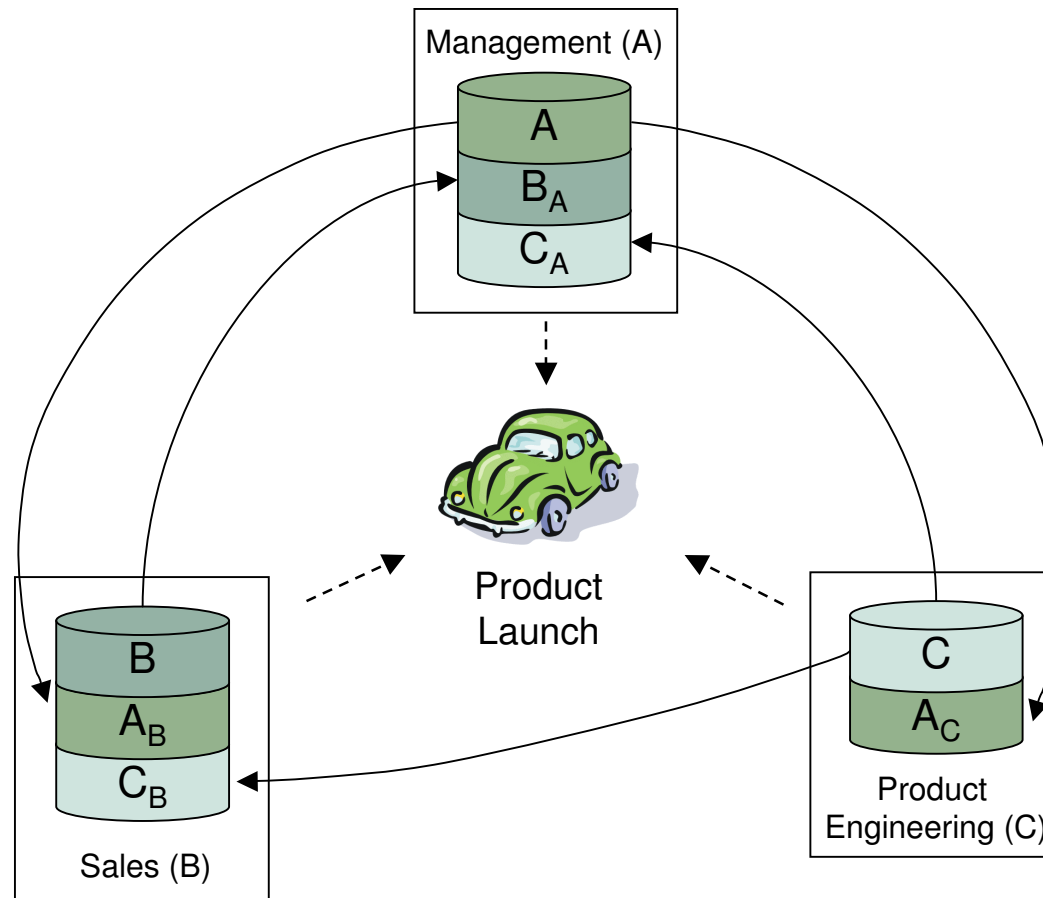
Dígame: A Push-based P2P Database

Christopher Popfinger · Cristian Pérez de Laborda · Stefan Conrad

Scenario: Collaborative Work



Scenario: Collaborative Work



Basic Functionality

- Administrator makes a subset of its local data accessible
- Other components subscribe to specific part of that data
- Initial transmission of the entire data
- Thereupon modifications of schema and data are actively propagated to the subscribers according to specific delivery schedule
- Pull-based fallback

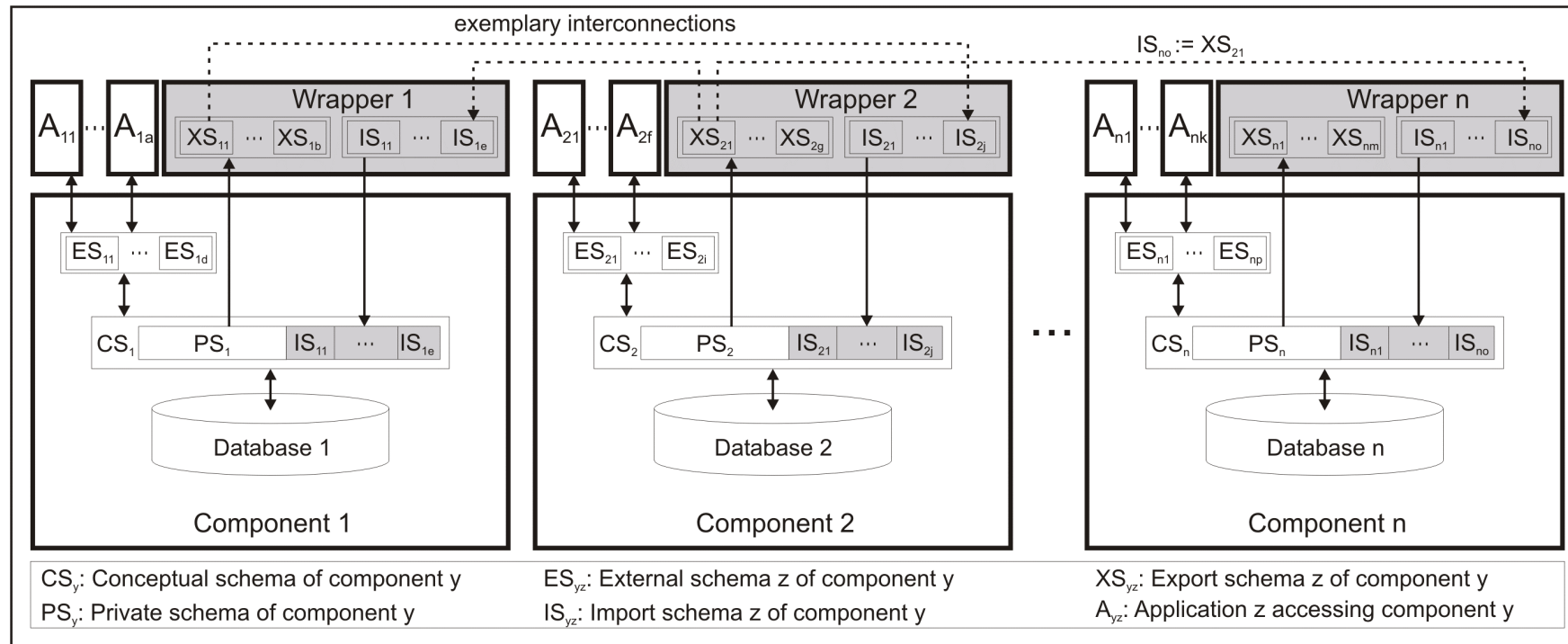
Characteristics

- Push-based approach to a loosely coupled multidatabase
- Communication layer buildt up by wrapper components
- Dynamic interconnectivity of autonomous data sources
- No central authority in the system
- Wrapper communicate using push- and pull-based protocols

Characteristics

- Administrator of local source decides on level of participation
- Data can only be modified by the data owner
- Standardised exchange format (RDF, OWL,...)
- Basically not limited to a single data model
- Manageable amount of trustworthy, reliable and reachable data nodes (trustworthy business environment)

DÍGAME architecture



Thank you.