

# DATA MODELING

Concepts and implementation example (in ARIS)

# WHAT ARE THE QUESTIONS TO ANSWER?

What is the data that we are talking about?

- Conceptual / logical data models

Where do I store data and how is it transformed?

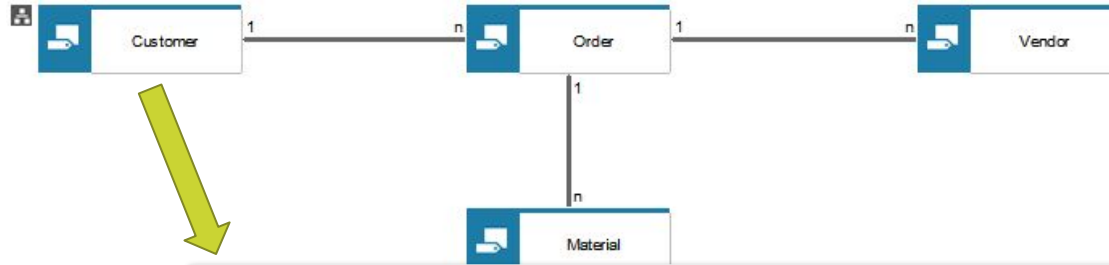
- Application models
- Physical data models

Where do I ask for the data?

- Screen diagrams
- Screen navigation

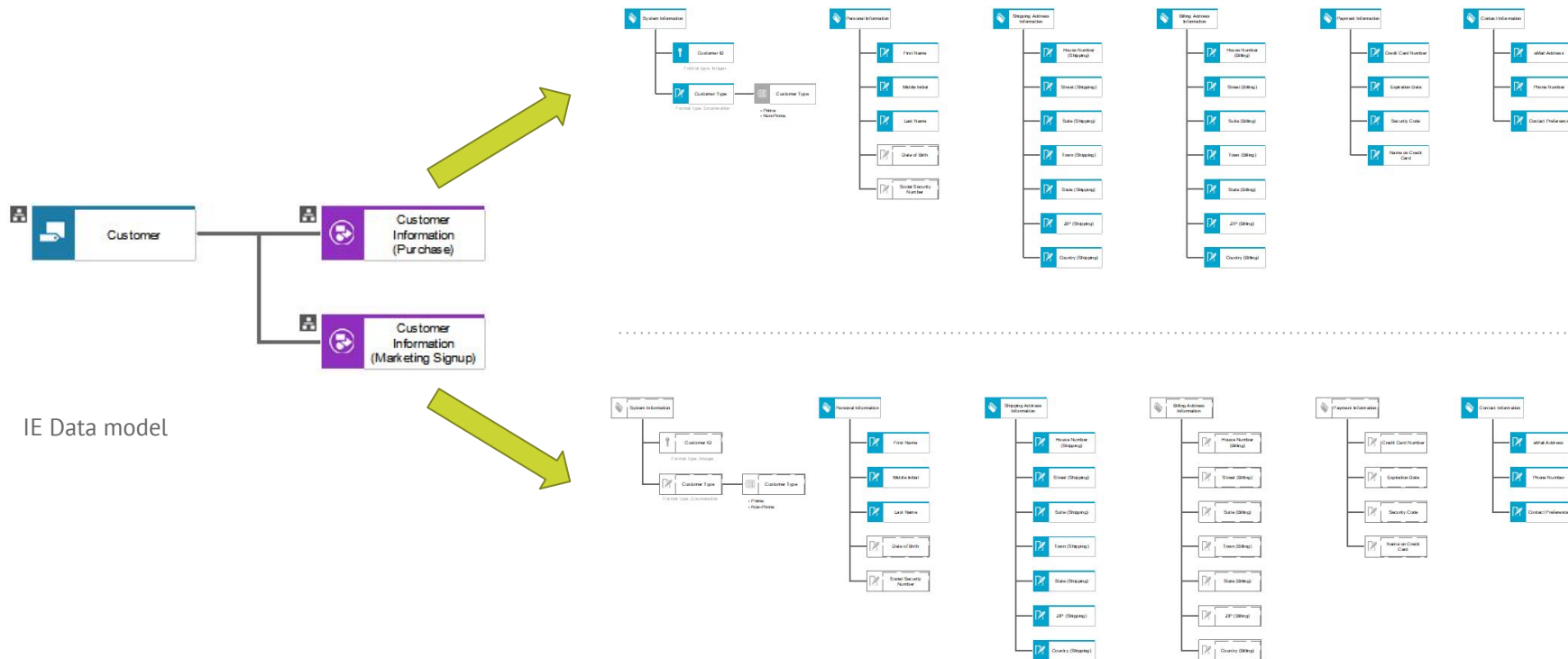
# CONCEPTUAL / LOGICAL DATA MODELING

What is the data that we are talking about?



# CLUSTERS ARE ENTITIES IN CONTEXT

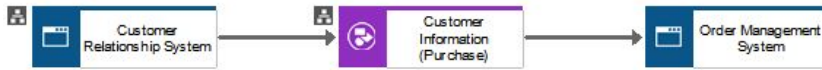
What is the data that we are talking about?



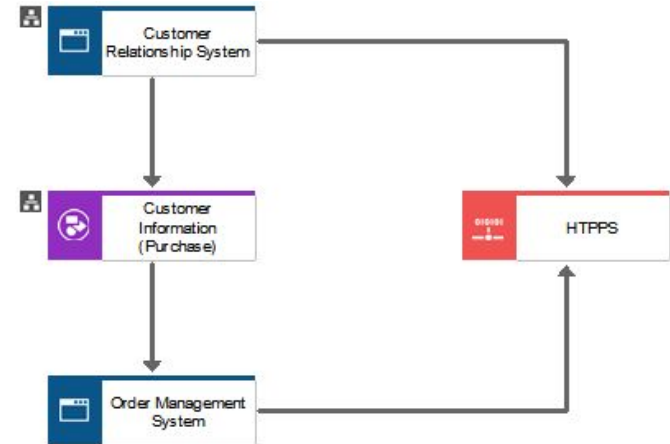
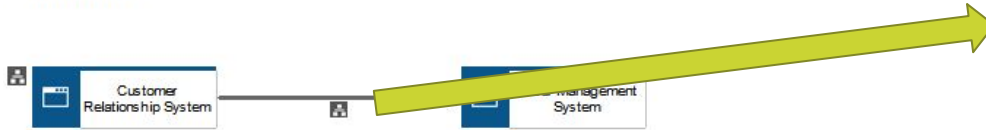
# APPLICATION COLLABORATION MODELS

Where do I store data and how is it transformed?

## Alternative 1

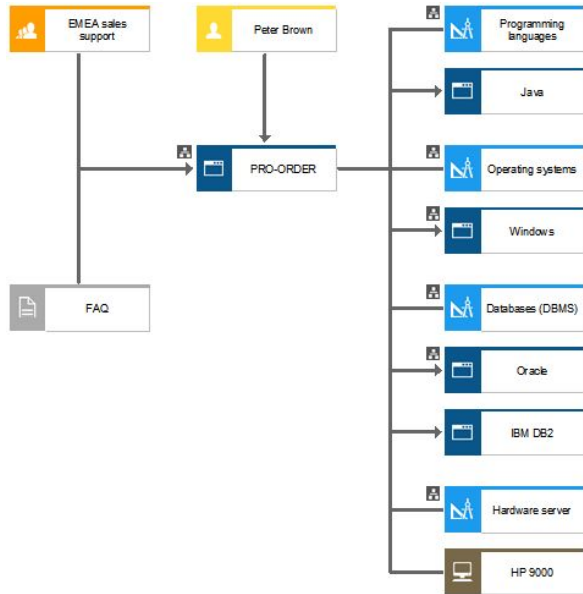


## Alternative 2

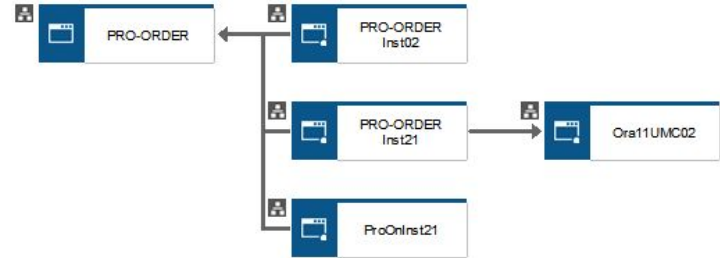


Application Collaboration Diagrams

# ADDITIONAL APPLICATION MODELS



Application Profile (Access Diagram)



Application Instances

# PHYSICAL DATA MODELS

Where do I store data and how is it transformed?

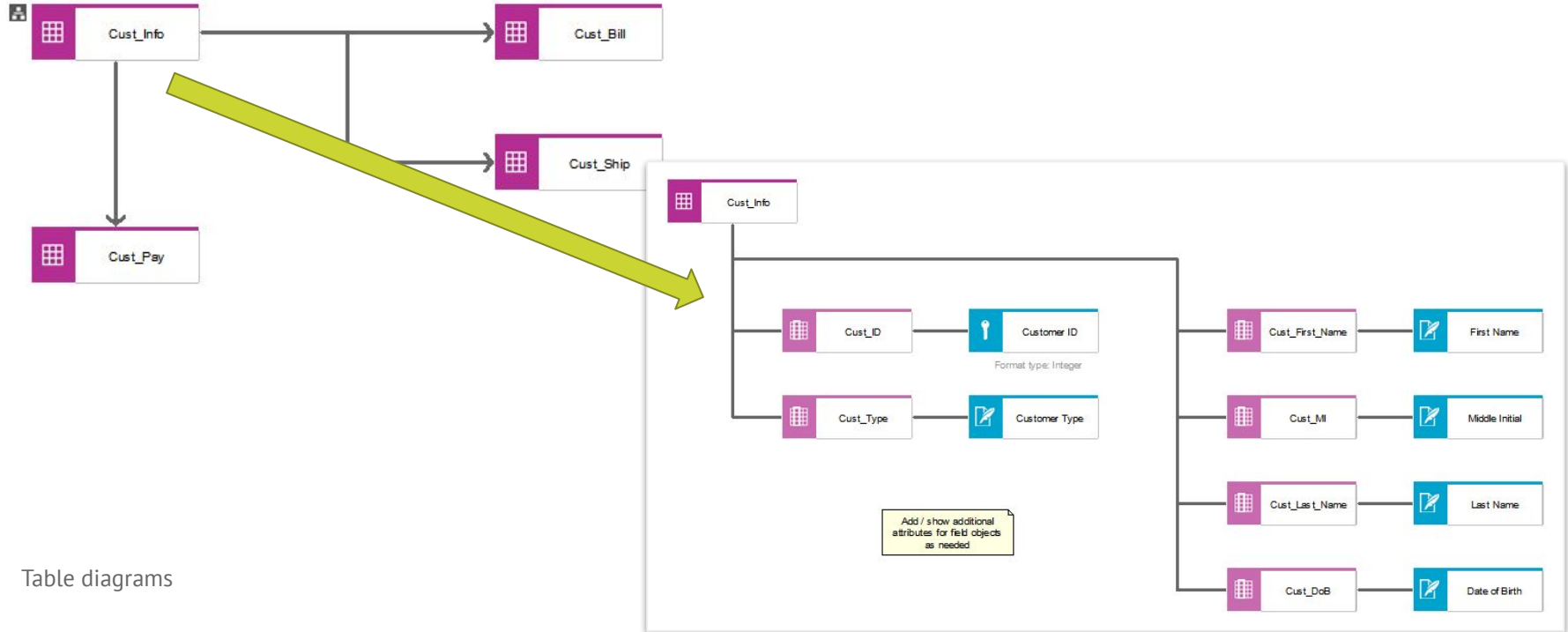
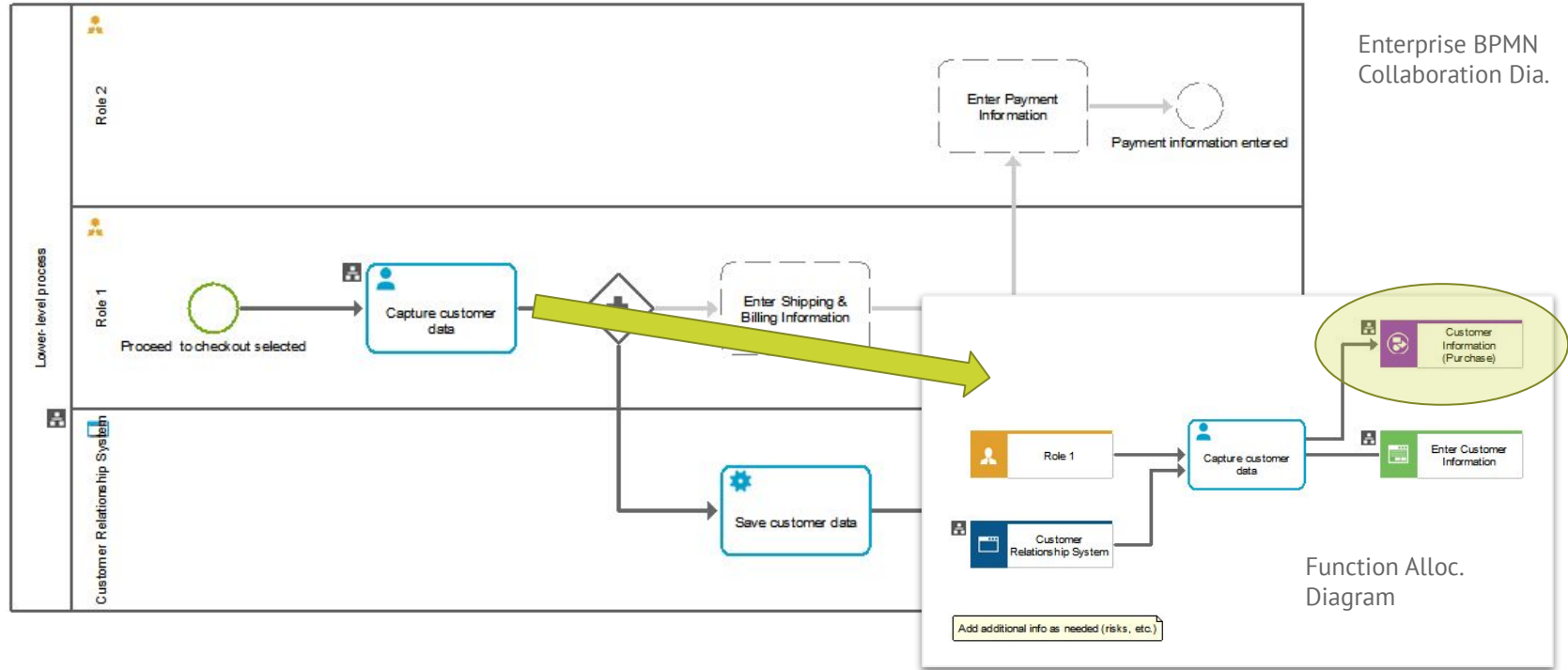


Table diagrams

# DATA IN THE CONTEXT OF PROCESSES

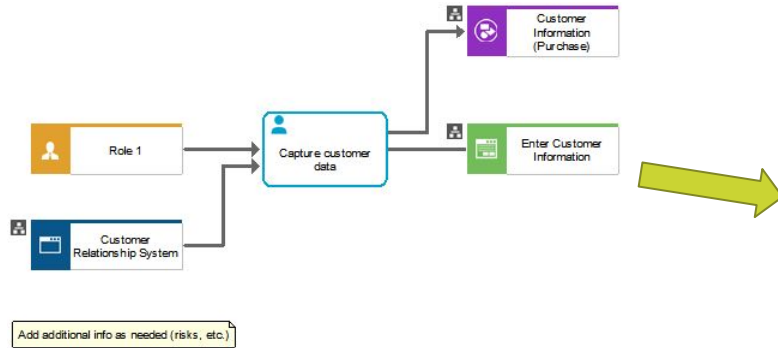
Where do I ask for the data?





# DATA MAPPING IN SCREEN DIAGRAMS

Where do I ask for the data?

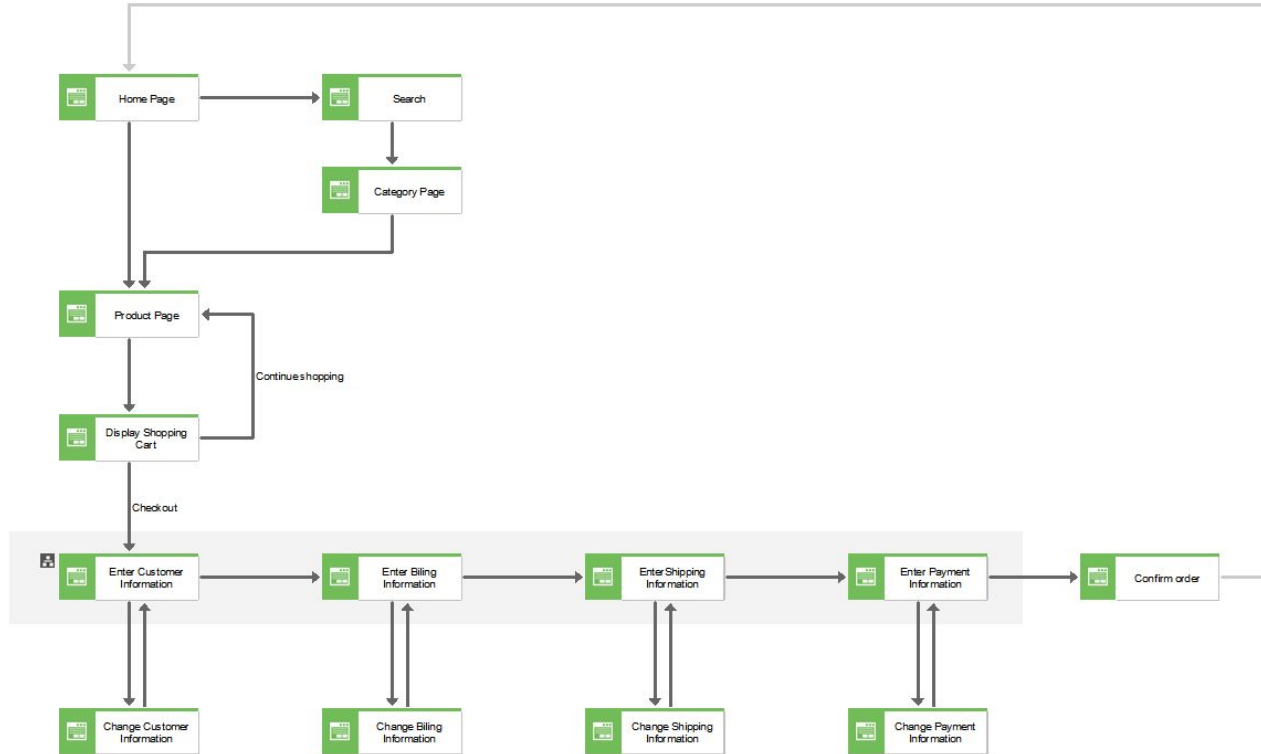


Data	Layout	Functions
	<div><h3>Step 1: Enter your information</h3><hr/><h4>1.1 Personal Information</h4><p>Please enter your personal information ...</p><div><input type="text" value="First Name"/> <input type="text" value="Middle Initial"/> <input type="text" value="Last Name"/></div></div>	
<input checked="" type="checkbox"/> First Name		
<input checked="" type="checkbox"/> Middle Initial		
<input checked="" type="checkbox"/> Last Name		
	<div><h4>1.2 Contact Information</h4><p>What is the best way to contact you? Your email address is required for sending the order confirmation.</p><div><input type="text" value="eMail Address"/> <input type="text" value="Phone Number"/></div><div><input type="text" value="Preferred contact channel"/></div></div>	
<input checked="" type="checkbox"/> eMail Address		
<input checked="" type="checkbox"/> Phone Number		
<input checked="" type="checkbox"/> Contact Preference		
	<div><input type="text" value="Next: Shipping &amp; Billing Information"/></div>	<div><input type="button" value="Enter Shipping &amp; Billing Information"/></div>

Screen Diagram

# SCREEN NAVIGATION MODELS - CONTEXT

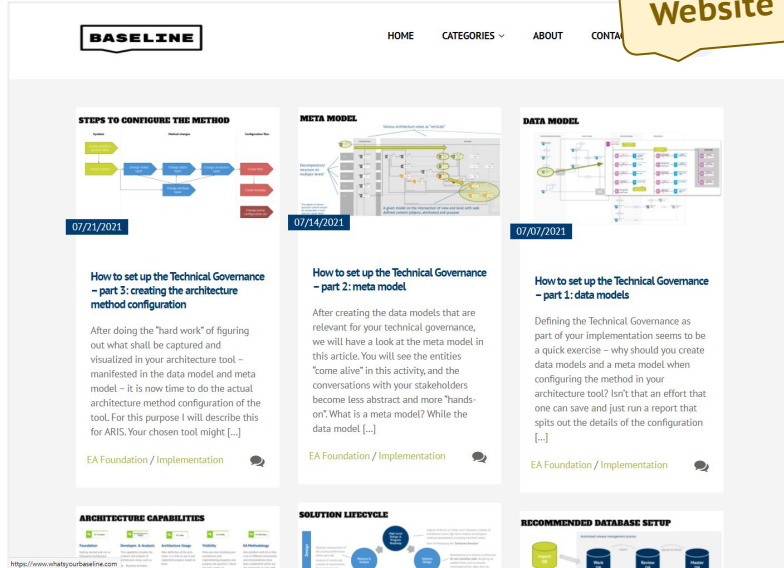
Where do I ask for the data?



Screen Navigation

# WHERE TO FIND MORE INFO

Website



[whatsyourbaseline.com](https://whatsyourbaseline.com)

Podcast



<https://podcasters.spotify.com/pod/show/whatsyourbaseline>