

Supporting Business Modelling in Servitization Processes

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AGENDA

1. Motivation and Objectives

2. INNoVaServ Toolkit

- Presentation
- Case Study
- Business Modeling
- Next Steps...

3. Conclusions & Future Works



Motivation and Objectives

Business Model

Describes the bases upon which the firm creates, provides and captures value.

Key Role of Business Modelling in Servitization:

- Understood as the process of increasing value by adding services to products ...
- Servitizing implies an innovation process in an organisation's **business model** that leads to the integrated provision of goods and services

The first step of a servitization process consists of analysing and redesigning the **business model**.

Motivation and Objectives - *The Problem*

There are currently several techniques or notations for business modelling:

- Canvas model (Osterwalder and Pigneur, 2010)
- Value model (Gordijn and Akkermans, 2003)
- Service Blueprint model (Bitner et al., 2008)
- PCN diagram (Sampson, 2012)
- BPMN (BPMI, 2004 - OMG, 2006)



Motivation and Objectives - *The Problem*

- All of them have similarities and differences → Complementary in many cases.
 - Identifying who the consumers of a service are, or which are the entities participating in a process.
- Different collaborating organisations and even different teams within a same organisation may use one or several of these techniques to represent the business model.
- No integrated environment that makes it possible to either:
 - Work with several models simultaneously.
 - Identify, register and manage the relationships among them.



Motivation and Objectives - *The Proposal*

A toolkit that:

- Integrates support for different **business modelling techniques** and provide tools to design the different models.
- Allows registering and managing the **relationships** among models designed using such techniques.



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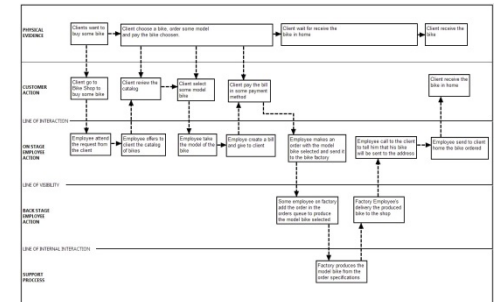
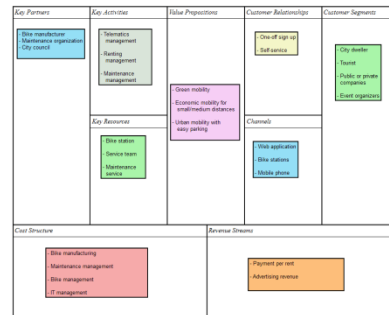
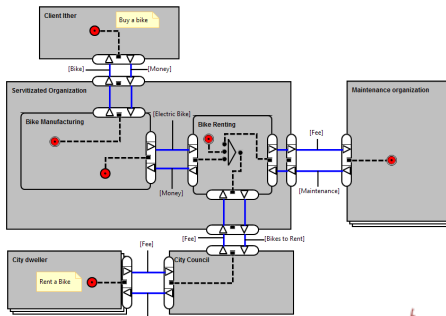
3. Conclusions & Future Works



Introducing INNoVaServ Toolkit



- An Eclipse-based tool to create and design models to represent **Business Services** and **Service Operations**
- A set of **Graphical Diagrammers** for the Value, Canvas and the Service Blueprint models.



Case Study - BicyMAD



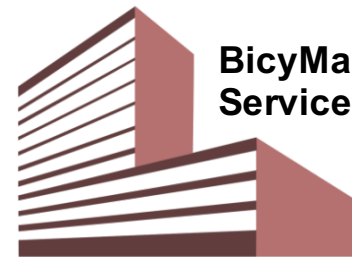
- A small bike seller (**products**)
- Decided to expand by offering an electrical bike renting **service**



Bike Buyer's
Customers





BicyMad
Bike Store



BicyMad
Services

Case Study - BicyMAD

Tow Business Lines:

- Electric Bikes Renting 
- Bikes Selling. 

Carried out by two divisions:

- Bike Renting Division.
- Manufacturing Division (The factory).



BicyMad



**Manufacturing
Division**



**Renting
Division**

Case Study - BicyMAD



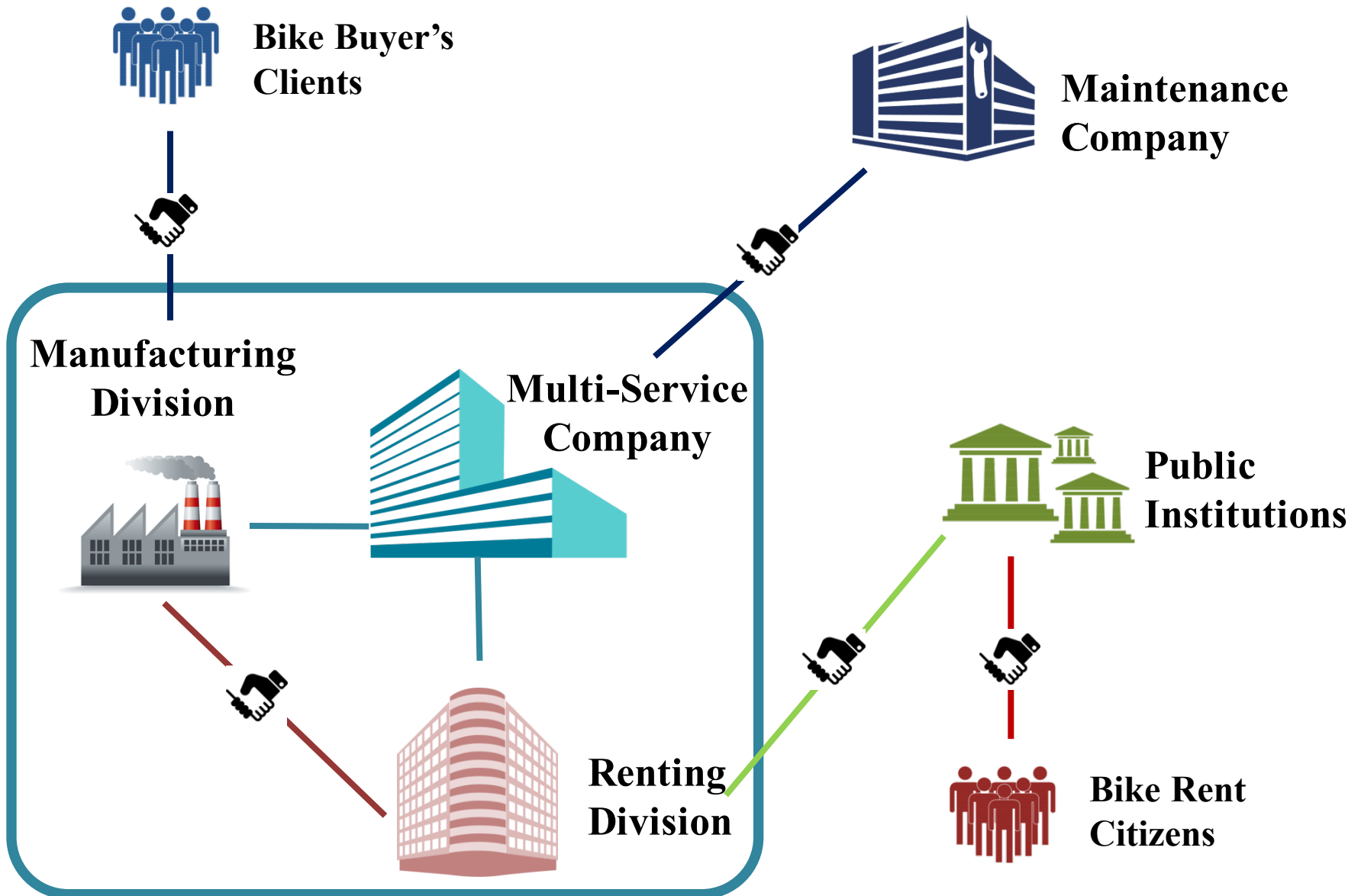
BicyMad

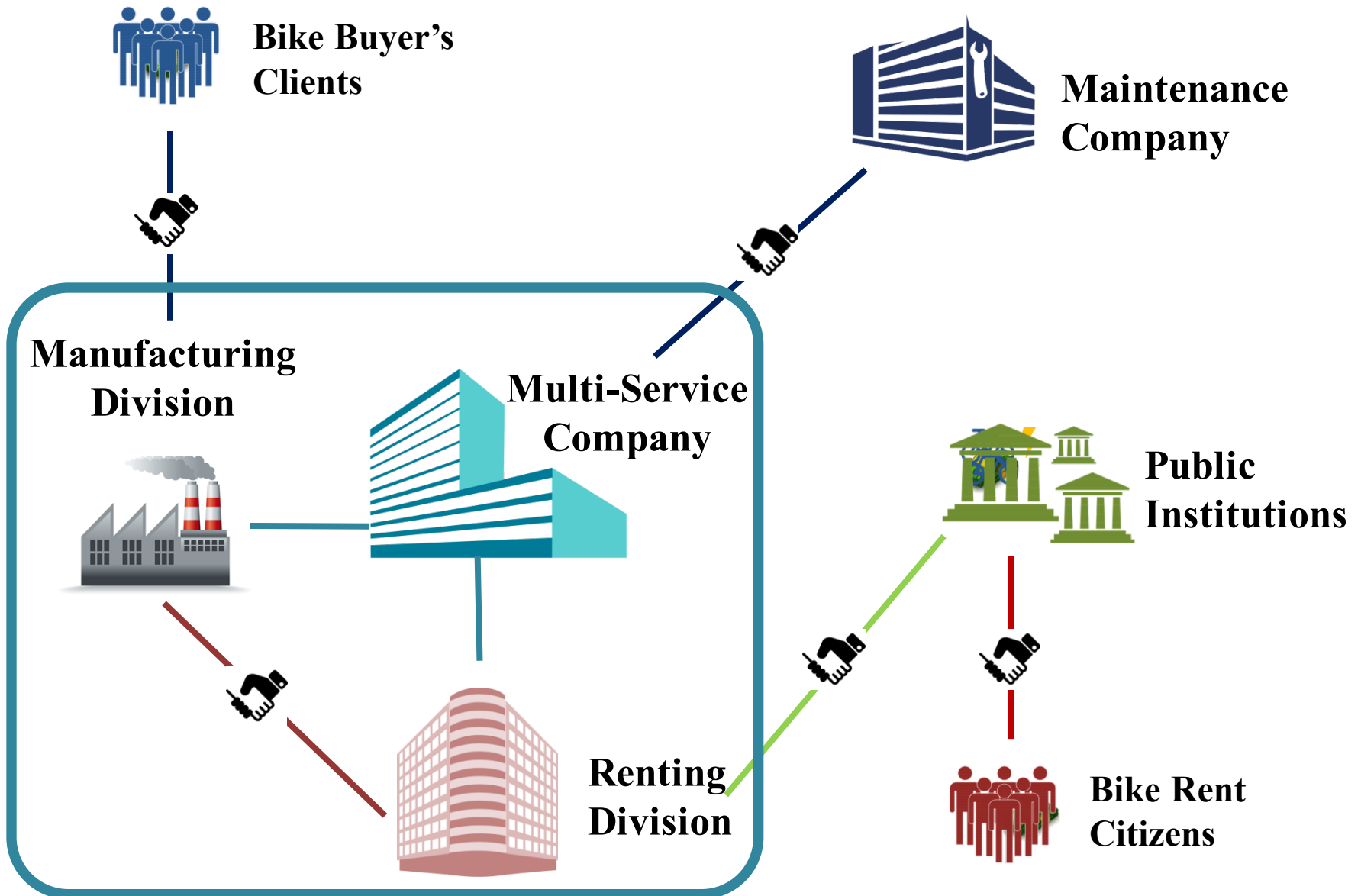


Maintenance
Company

Actors:

- *People who want to buy bikes.*
- *Public Institutions who want to rent electric bikes.*
- *Citizen's who want to rent bikes.*
- *Maintenance Company.*





Business Modeling – e3value model



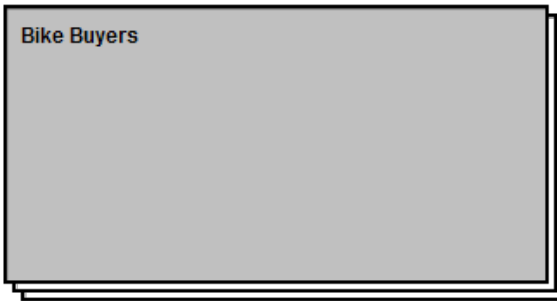
Time to model the previous conceptualization. We will focus on the Value model

The **Value Model** explains how customer value works and how customer value is made:

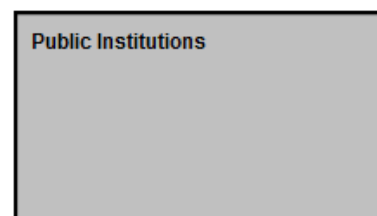
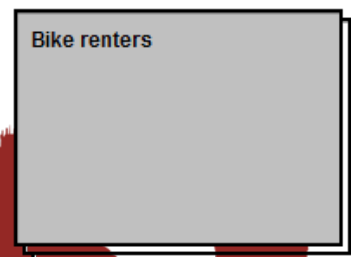
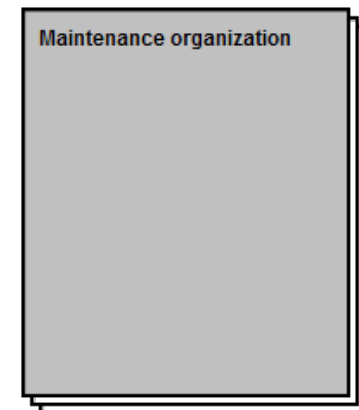
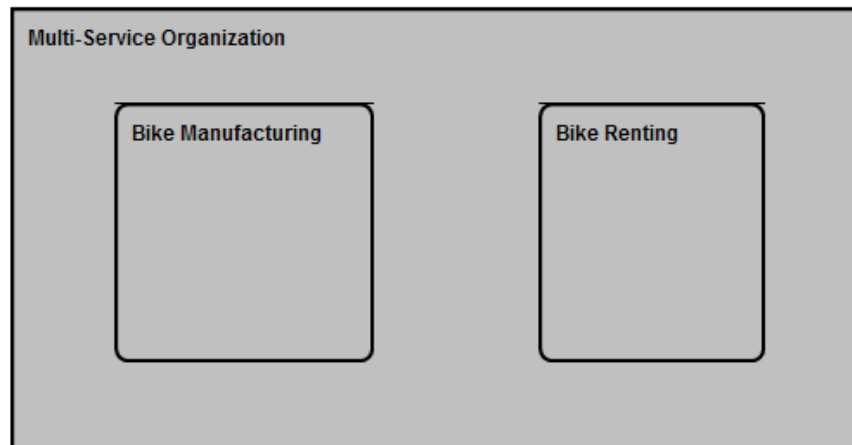
- The Actors that participate in one or more services,
- The relationships between the services.
- The object values exchanged.
- The relations between actors and services.

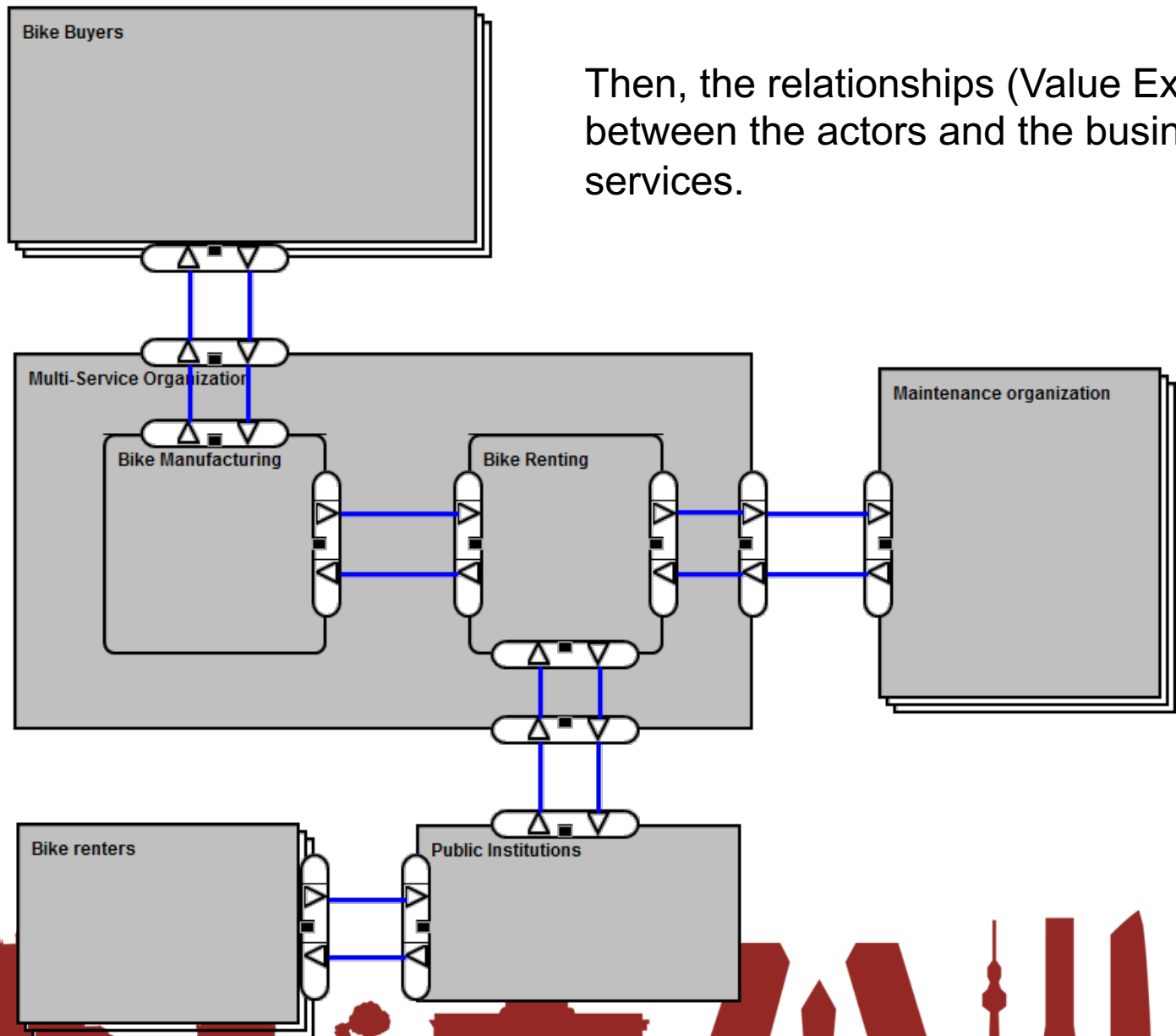
Let's go to design!!





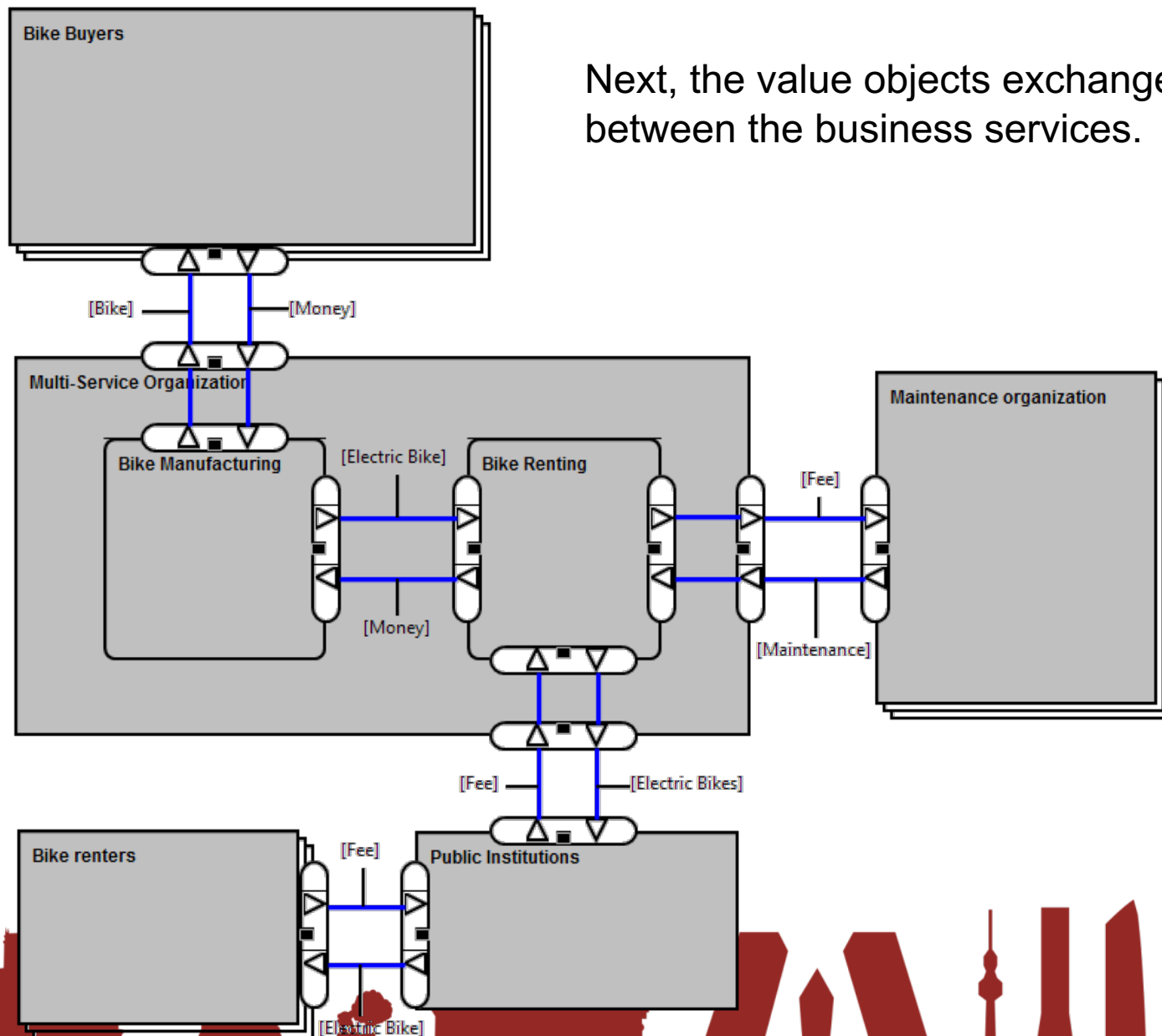
First, we represent the actors that participate in the value model.

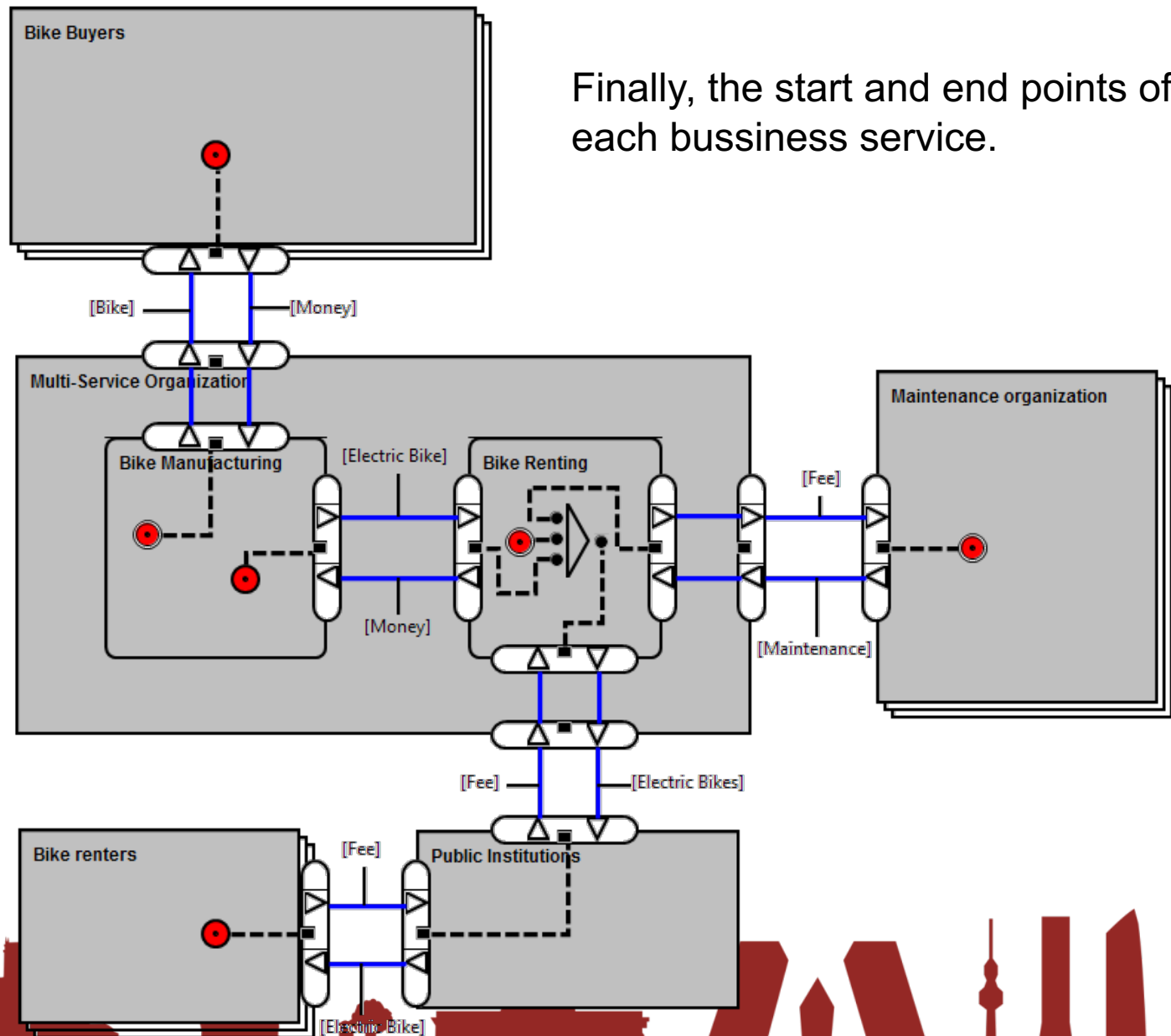




Then, the relationships (Value Exchanges) between the actors and the business services.

Next, the value objects exchanged between the business services.





Finally, the start and end points of each bussiness service.

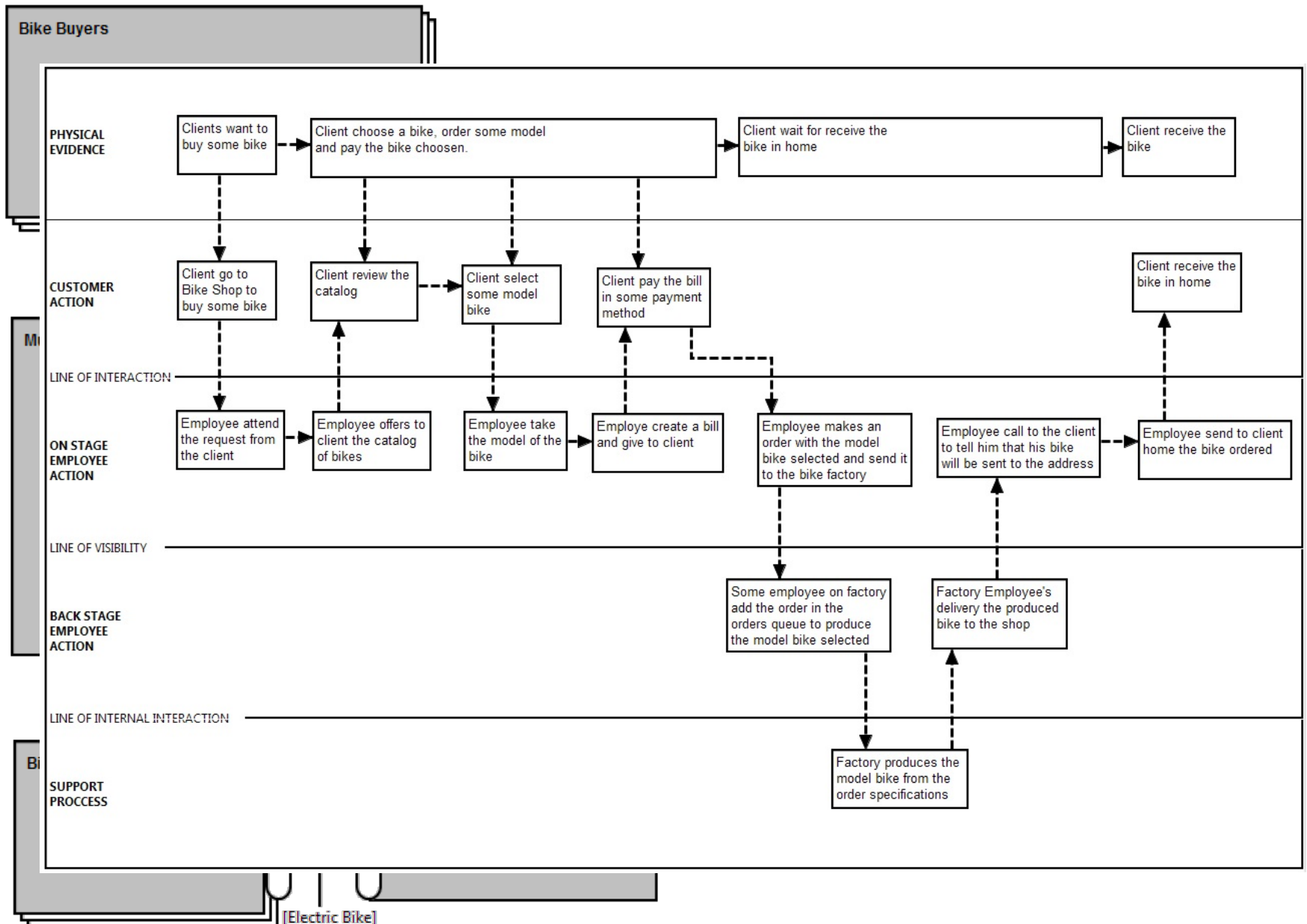
Business Modeling– Service Blueprint model



The same business model could be represented with a ***Service Blueprint model***

- Focus on particular interactions.



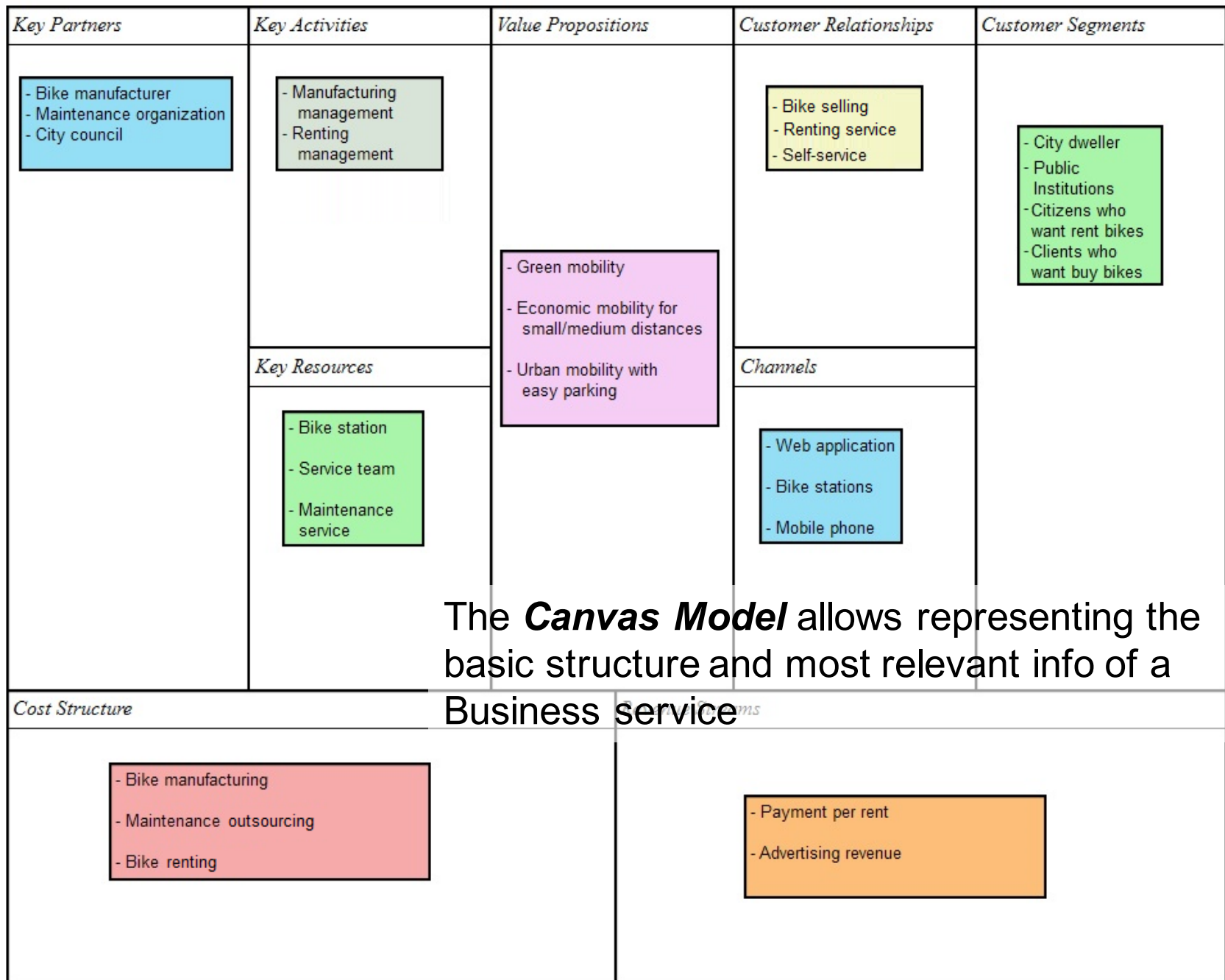


Business Modeling – Canvas model



The ***Canvas Model*** allows representing the basic structure and most relevant info of a Business service





The ***Canvas Model*** allows representing the basic structure and most relevant info of a Business service



INNoVaServ^{Toolkit}

LIVE DEMO



Next Steps ... What info are we collecting?



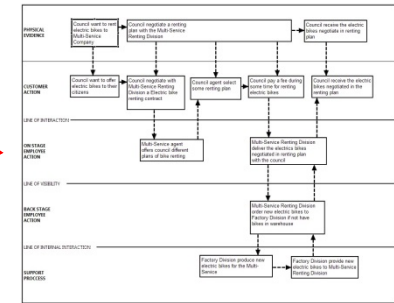
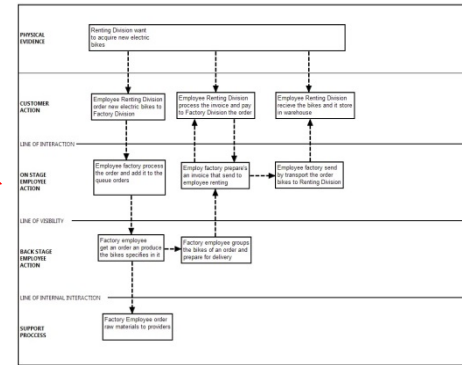
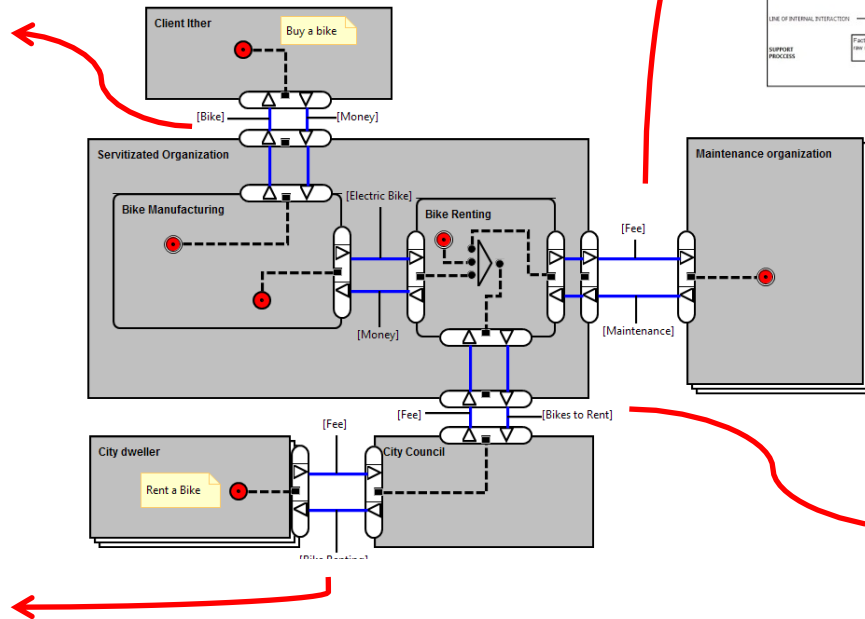
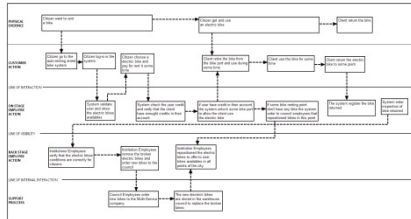
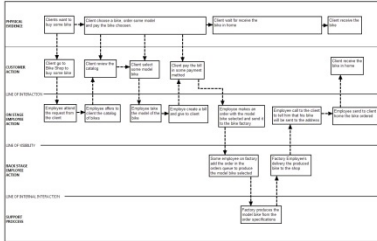
- **e3value**
 - + The actors that participate in a business scenario
 - + The value exchanges between those actors
 - + The value object exchanges that have place
 - The **process** related to each business service.
- **Service Blueprint**
 - + The steps of a particular interaction (**process**) between the costumer and the product/service
 - The interaction between the costumer and **DIFFERENT products/services** at a time (in the same model)
- **Canvas:**
 - + Different aspects of a particular business idea
 - The process related to such idea
 - **Different value propositions** in the same model

Next Steps ... What can we do next?



- Identify relationships between different techniques for business modelling (meta-relations)
- Support the automatic identification of relationships between particular business models
- Automate the conversion between notations:
 - E.g: generate a (partial) value model from a canvas and a Service Blueprint model.
- Reporting





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Conclusion



- Different notations or models for Business Modelling
- No integrated platform to support them



- INNoVaServ: toolkit for Service Design
 - Integrated support for different business modelling notations.
 - Model management and reporting facilities
 - Automatic identification of existing relationships



Future Works



- Integrate support for PCN
- Offer an automated Workflow to help on service design.



Download It!



www.kybele.es/innovaserv



Questions?

