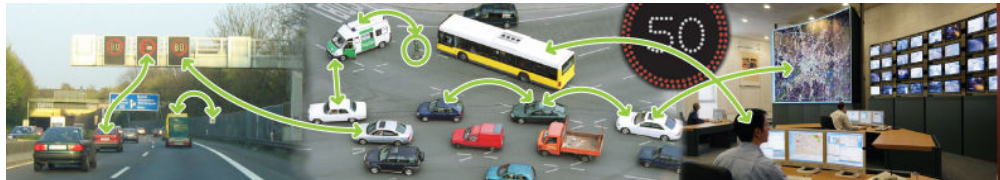




How to make it happen? *From use cases to system requirements*

Jaap Vreeswijk, Peek Traffic bv
10 September 2009



System requirements

- System and implementation oriented
- Formal text and diagrammatic techniques
- Satisfy the user needs
- Unambiguous, singular and unique
- Consider the effect of the system environment
- Consistent and traceable back to user needs
- Add working requirements from engineers
- Used to test the resulting system



Requirement types

- Functional requirements
 - Specify services expected from system
 - Functions needed for working system
- Non-functional requirements
 - Performance and quality attributes of a working system
- Context requirements
 - Environments constraints
 - Needs to work effectively in environment

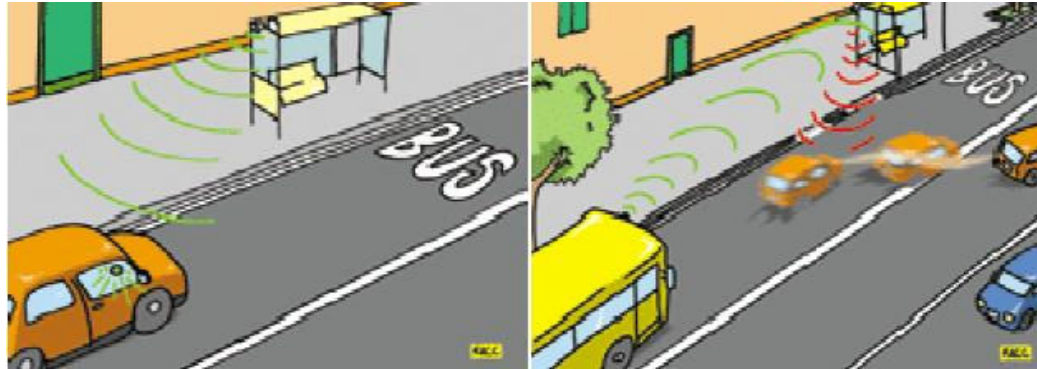


Requirement examples

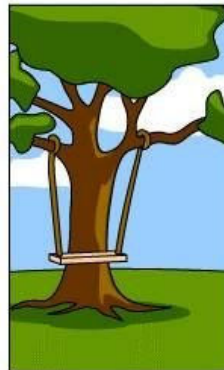
- The system shall be able to communicate with vehicle approach a bus lane wirelessly.
- The system shall be able to inform vehicles to use the bus lane.
- The system shall be able to determine the presence of public transport vehicles.
- The system shall be able to monitor the traffic flow on the bus lane.
- The system shall be able to clear the bus lane.



Flexible Bus Lanes Application



How the customer explained it



How the Project Leader understood it



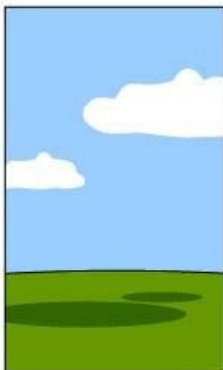
How the Analyst designed it



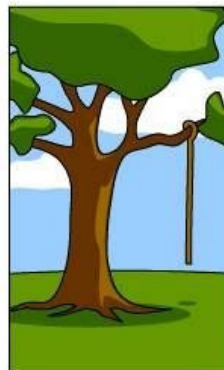
How the Programmer wrote it



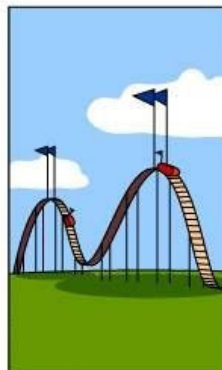
How the Business Consultant described it



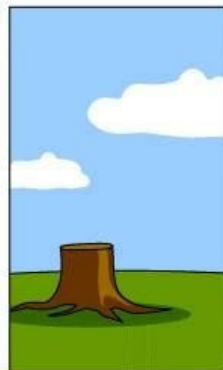
How the project was documented



What operations installed



How the customer was billed



How it was supported



What the customer really needed



Your turn!

www.cvisproject.org

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