



SPARX GLOBAL
ENTERPRISE ARCHITECT 15

The Business Value of Modeling

Scott Hebbard



- Communications Manager at Sparx Systems
- Over 2 decades of experience in computing and modeling



Sparx Systems

- Enterprise Architect:
 - Commercially released in 2000
 - Based in Creswick, near Melbourne, Victoria, Australia
 - 850,000+ paid users world wide
 - Designing and specifying 'complex' systems
 - Customers in all industries including Aerospace, Aviation, Retail Banking, Finance, Insurance, Healthcare, Government, Military, Utilities, Auto, Geospatial and much more

Agenda

- Discuss the Business Value of Modeling
- Reasons for implementing tooling
- Demonstration of the benefits using Enterprise Architect
- Questions and summary



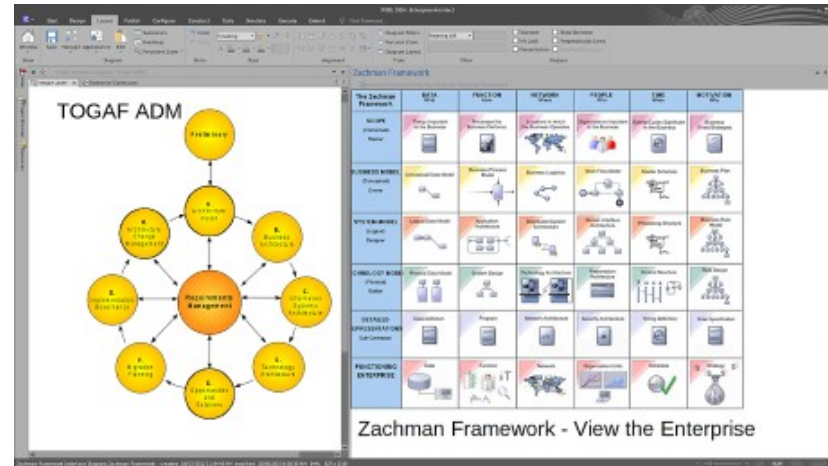
The Problem

- Office tools are ubiquitous – not suited for all tasks
- Spreadsheets are not suitable for requirements
- Drawing tools are not designed for enterprise architecture
- Written reports and diagrams are static with no traceability
- As organizations mature and grow, a more comprehensive approach is required that scales



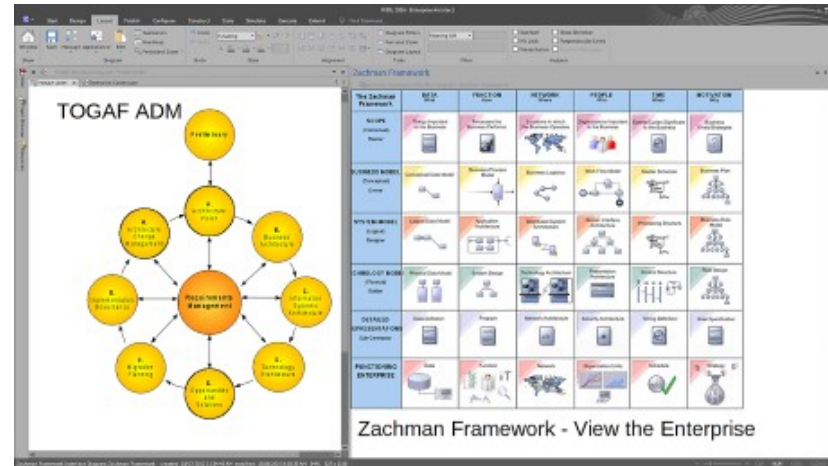
Benefits of Modeling

- Gain insight into an organization or system
- Understand the impact of change
- Reduce and mitigate risk
- Reduce Complexity
- Improve Process
- Transformation



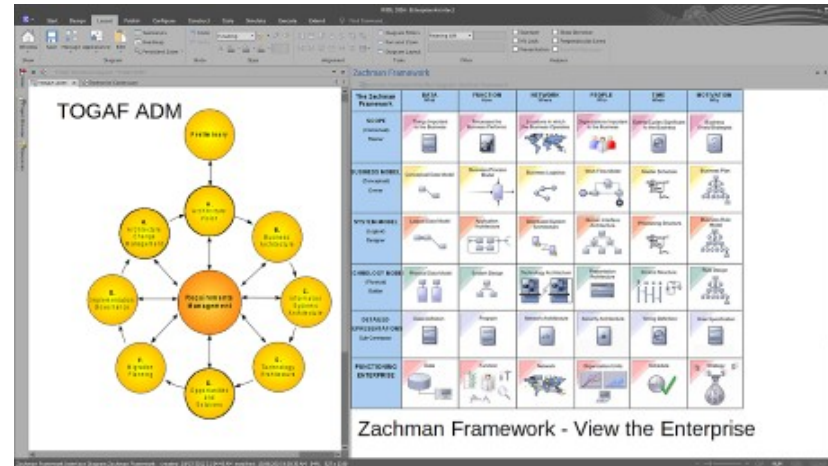
Benefits of Modeling

- Gain insight into an organization or system
- Understand the impact of change
- Reduce and mitigate risk
- Reduce Complexity
- Improve Process
- Transformation



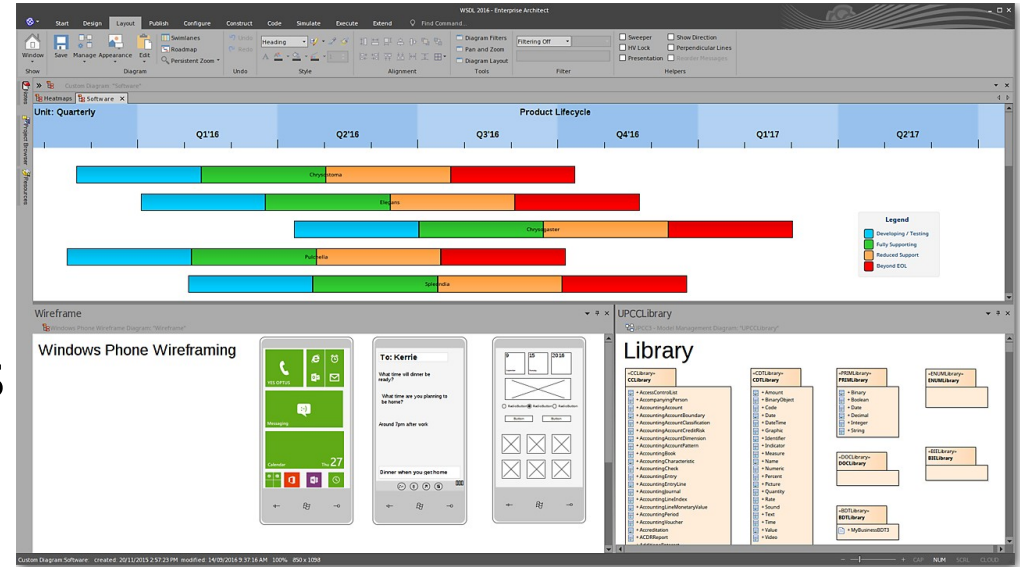
Benefits of Modeling

- Gain insight into an organization or system
- Understand the impact of change
- Reduce and mitigate risk
- Reduce Complexity
- Improve Process
- Transformation



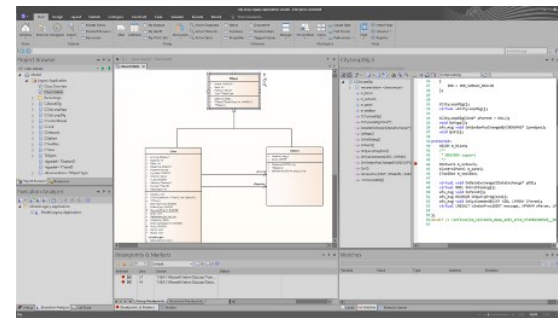
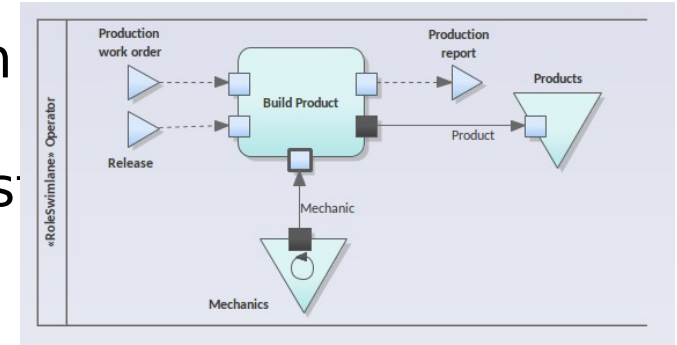
Benefits of Modeling

- Reuse
- Traceability
- Improves productivity
- Understand the business
- Make better decisions
- Retain knowledge



Benefits of Modeling

- Captures an understanding of the system
- Great for training or on-boarding of new staff
- Improves documentation
- Helps to decompose complex systems into meaningful chunks
- Improve maintenance
- Reduce defects



Communicate with Stakeholders

- Clear and Concise
- Models are easy to understand
- Explore connections
- Provide relevant information
- Easily accessible from any device
- Up to date



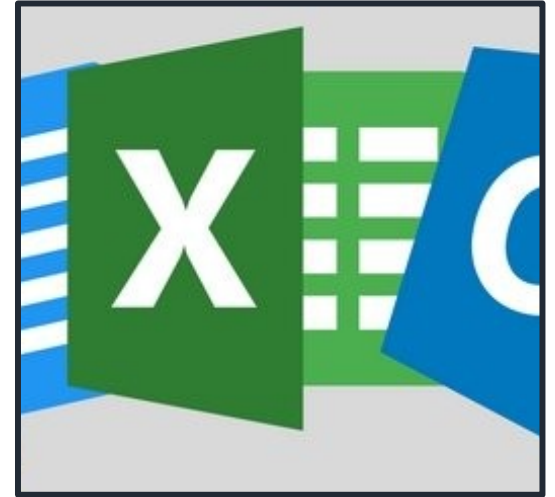
Problems with Office Tools

- Out of date the moment they are published
- Hard to distribute
- Static
- No feedback
- Hard to reuse without editing



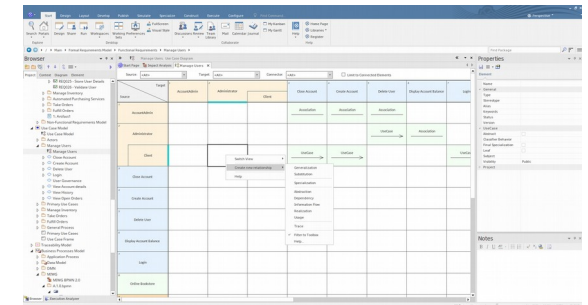
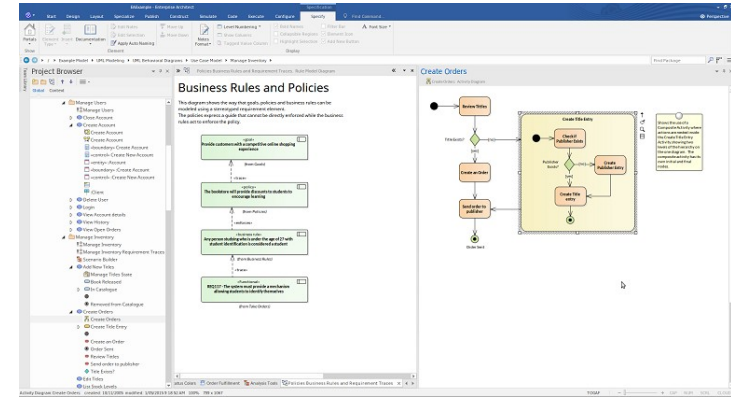
Drawing vs Modeling

- Drawing is static and confined to a single diagram
- Any change requires a new diagram
- Content becomes out of date
- Difficult to maintain
- Hard to scale



What Enterprise Architect Offers

- Manage and gather requirements
- Model software and systems
- Model and analyze business processes
- Build design and behavioral models



What Enterprise Architect Offers

- Collaboration and team development
- Traceability from requirements through to deployment
- Model any system from a web application to embedded system
- Extensive project management support
- Test management and code engineering

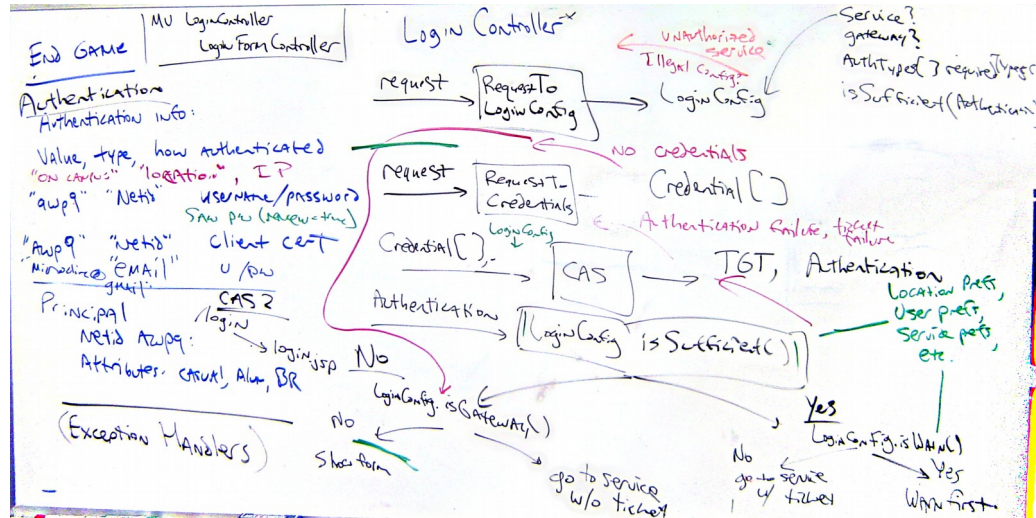


Requirements - Gathering

- Offline means:
 - White Boards
 - Post IT Notes / Napkins / Notepads
- Software Based:
 - Word / Excel
 - Visio / Jira
 - Sparx Systems Enterprise Architect



Requirements - Whiteboards



Requirements - Whiteboard @6pm



Post IT Notes and Napkins



Post IT Notes - Advanced Mode

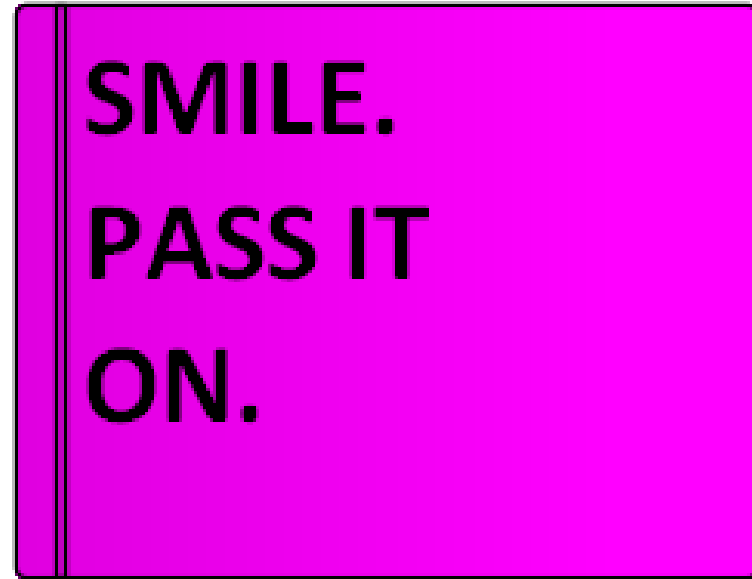
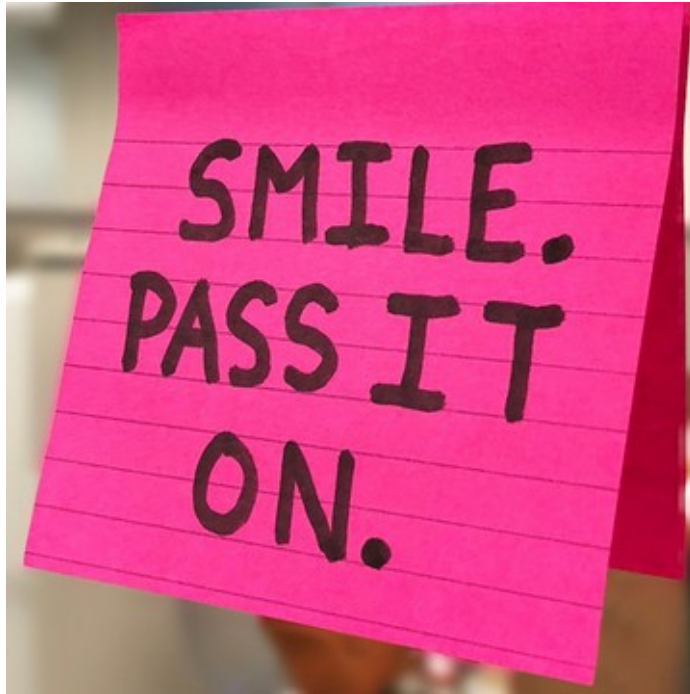


Right Tool for the Task at Hand

- Allow you to work as you always have done
- Will allow you to create understandable specifications
- Empower you to drive down steam activities
- Make subsequent projects faster
- Retain a history of decisions and implementations



Build Requirements



Convert to a Digital Approach

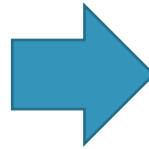


End of Life	Last Generation	State of Market	Leading Edge	Emerging	In the Labs
The Administrator Active tasks by resource Java EE Proposed	Java Proposed Silverlight Proposed Tom O'Reilly Applicat... Oracle Proposed IDE Proposed Enterprise Manager Proposed GUI Proposed CLI Proposed	C++ Proposed Fusion CRM Proposed Fusion HCM Proposed Social Network Proposed APEX Proposed Desktop Proposed MySQL Proposed 3rd Party Tools Proposed	Php Proposed AWS Proposed API Proposed Mobile Proposed Tablet Proposed		Python Proposed



Work Like You Always Have

Req #	Priority	Title	Requirement	Input	Output	Processing	System Interfaces
101	M	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #1	System #1
102	H	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #2	System #2
103	L	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #3	System #3
104	M	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #1	System #4
105	H	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #2	System #5
106	L	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #3	System #6
107	M	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #1	System #7
108	H	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #2	System #8
109	L	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #3	System #9
110	M	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #1	System #10
101	M	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #2	System #11
102	H	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #3	System #12
103	L	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #1	System #13
104	M	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #2	System #14
105	H	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #3	System #15
106	L	Requirement Name	Requirement description	Identify Inputs	Identify Outputs	Activity #1	System #16



Name	Author	Priority	Status	Version	Type	Difficulty	Modified
<input checked="" type="checkbox"/> REQ011 - Manage User Accounts	Paulene Dean	High	Validated	1.0	Requirement	Medium	6/11/2015
<input checked="" type="checkbox"/> REQ025 - Store User Details	Paulene Dean	Medium	Validated	1.0	Requirement	Medium	24/04/2015
<input checked="" type="checkbox"/> REQ027 - Secure Access	Tom O'Reilly	Low	Validated	1.0	Requirement	Medium	27/04/2016
<input checked="" type="checkbox"/> REQ018 - Report on User Account	Paulene Dean	High	Proposed	1.0	Requirement	Medium	27/04/2016
<input checked="" type="checkbox"/> REQ024 - Secure Access	Paulene Dean	High	Proposed	1.0	Requirement	Medium	26/08/2015
<input checked="" type="checkbox"/> REQ017 - Remove User	Paulene Dean	Low	Validated	3.0	Requirement	Medium	27/04/2016
<input checked="" type="checkbox"/> REQ026 - Validate User	Paulene Dean	Medium	Proposed	1.0	Requirement	Low	4/09/2015
<input checked="" type="checkbox"/> REQ016 - Add Users	Paulene Dean	High	Validated	2.0	Requirement	Medium	28/01/2015



Structured Scenarios

- Text to structure
- Structure to model
- Structure to tests

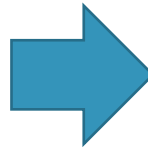


Structured Scenarios

- Automatically create structured data out of existing requirements/use cases/user stories

ATM User Story

The user approaches and inserts the ATM card into the machine slot. The system then prompts the user for their PIN. The user enters the pin correctly into the system. The System authenticates the user and logs the access time and location. The System then asks the user if they want to withdraw Cash, Show a Balance or make a deposit. The user selects to show the balance. The system then displays the current account balance. After three seconds the system displays the welcome screen again



Scenario: Basic Path Type: Basic Path

Textual Description Structured Specification

Step	Action	Uses	Results	State
1				
2	The user approaches and inserts the ATM card into the machine slot.			
3	The system then prompts the user for their PIN.			
4	The user enters the pin correctly into the system.			
5	The System authenticates the user and logs the access time and location.			
6	The System then asks the user if they want to withdraw Cash, Show a Balance or make a deposit.			
7	The user selects to show the balance.			
8	The system then displays the current account balance.			
9	After three seconds the system displays the welcome screen again.			

Entry Points Context References Constraints

Step	Path Name	Type	Join
0	Basic Path	Basic Path	-
4a	Incorrect Pin Entered	Alternate	3



Structured Scenarios

- Create Diagrams, Tests, Sequence Diagrams and more

Scenario: Basic Path Type: Basic Path

Textual Description Structured Specification

Step Action Uses Results State

1	The system displays a welcome screen.			
2	The user approaches and inserts the ATM card into the machine slot.			
3	The system then prompts the user for their PIN.			
4	The user enters the pin correctly into the system.			
5	The System authenticates the user and logs the access time and location.			
6	The System then asks the user if they want to withdraw Cash, Show a Balance or make a deposit.			
7	The user selects to show the balance.			
8	The system then displays the current account balance.			
9	After three seconds the system displays the welcome screen again.			

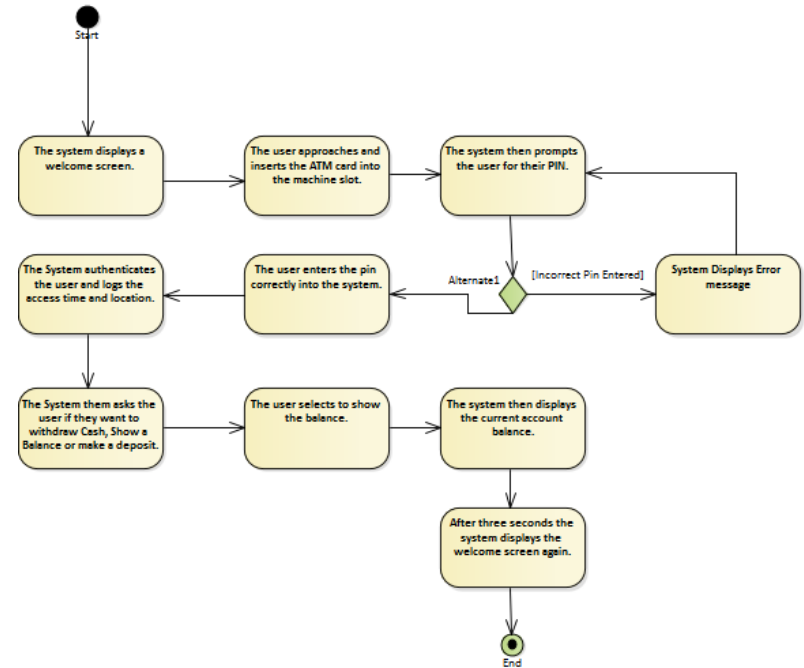
Entry Points Context References Constraints

Step	Path Name	Type	Join
0	Basic Path	Basic Path	-
4a	Incorrect Pin Entered	Alternate	3



Structured Scenarios Activity Diagrams

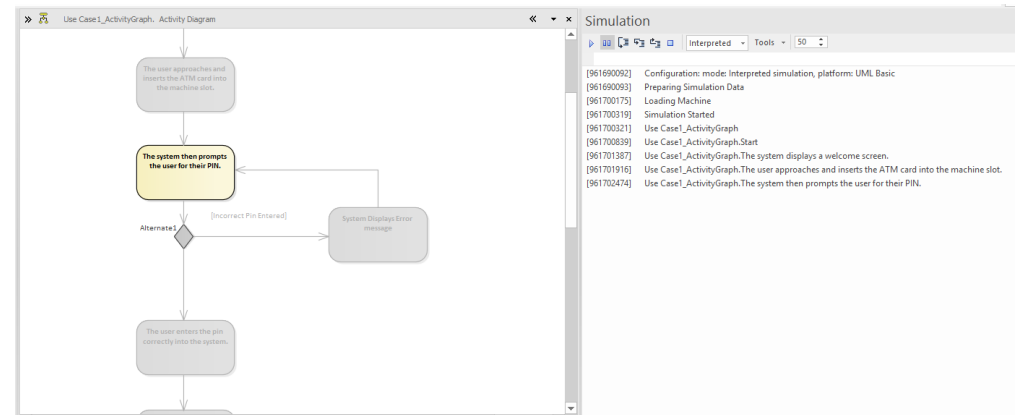
- Easier to follow
- Identify any erroneous steps
- Looks nice in a report
- No extra effort needed



Structured Scenarios

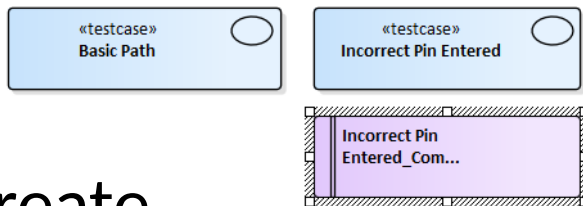
Basic Simulation

- Visually follow the process
- Identify any bottlenecks
- Repeatable
- Ensure the process can finish
 - No endless loops



Structured Scenarios

Test Sets



- Automatically create the steps needed to test all aspects of the process.
- Start of Test Driven Design

The screenshot shows a window titled "Element Notes" with a rich text editor interface. The content is organized into sections: "Start:", "Alternate:", and "Continues:". The "Start:" section contains three numbered steps. The "Alternate:" section has a condition "When [Incorrect Pin Entered]" followed by a step "4a_1. System Displays Error message". The "Continues:" section contains nine numbered steps.

Element Notes

Start:

1. The system displays a welcome screen.
2. The user approaches and inserts the ATM card into the machine slot.
3. The system then prompts the user for their PIN.

Alternate:

When [Incorrect Pin Entered]

4a_1. System Displays Error message

Continues:

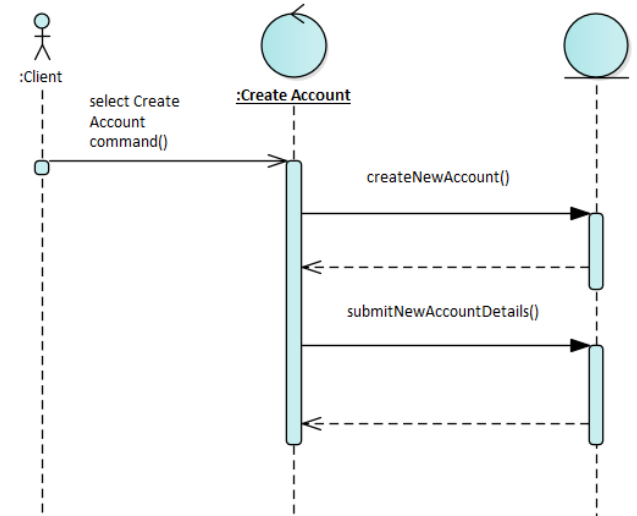
3. The system then prompts the user for their PIN.
4. The user enters the pin correctly into the system.
5. The System authenticates the user and logs the access time and location.
6. The System then asks the user if they want to withdraw Cash, Show a Balance or make a deposit.
7. The user selects to show the balance.
8. The system then displays the current account balance.
9. After three seconds the system displays the welcome screen again.

Element Properties | Element Notes



Structured Scenarios Sequence Diagrams

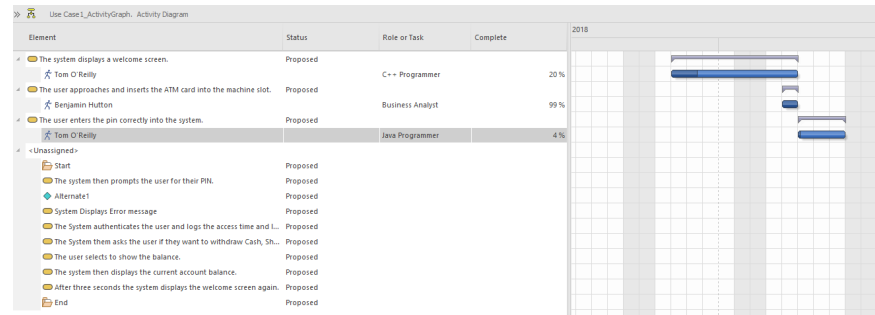
- Start identifying the actors of a system
- How to interact with a system
- Capture the interaction between objects in the context of a collaboration.



Structured Scenarios

Gantt Chart

- Role dependent custom views
 - (Gantt, Excel, Document, Model etc.)
- Assign resources to steps – Project Planning



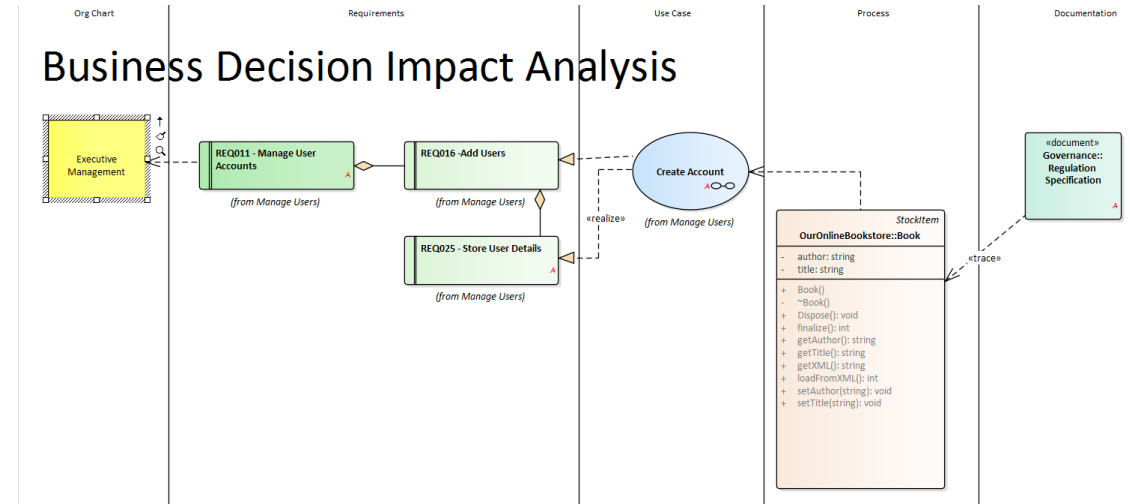
Using This Model

- Empower down stream activities
- Traceability
- Impact analysis
- Create accurate changes
- Gain insights
- Model driven development



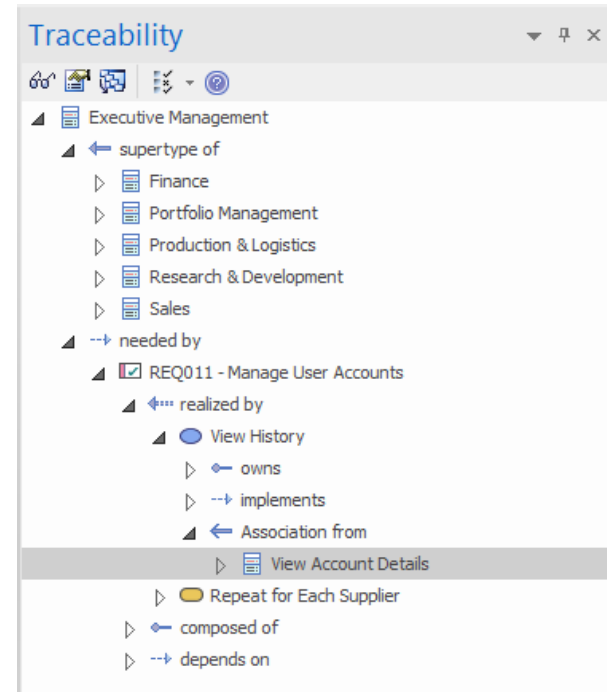
Traceability in Diagrams

- Can be hand crafted
- Automatic connectors for related elements



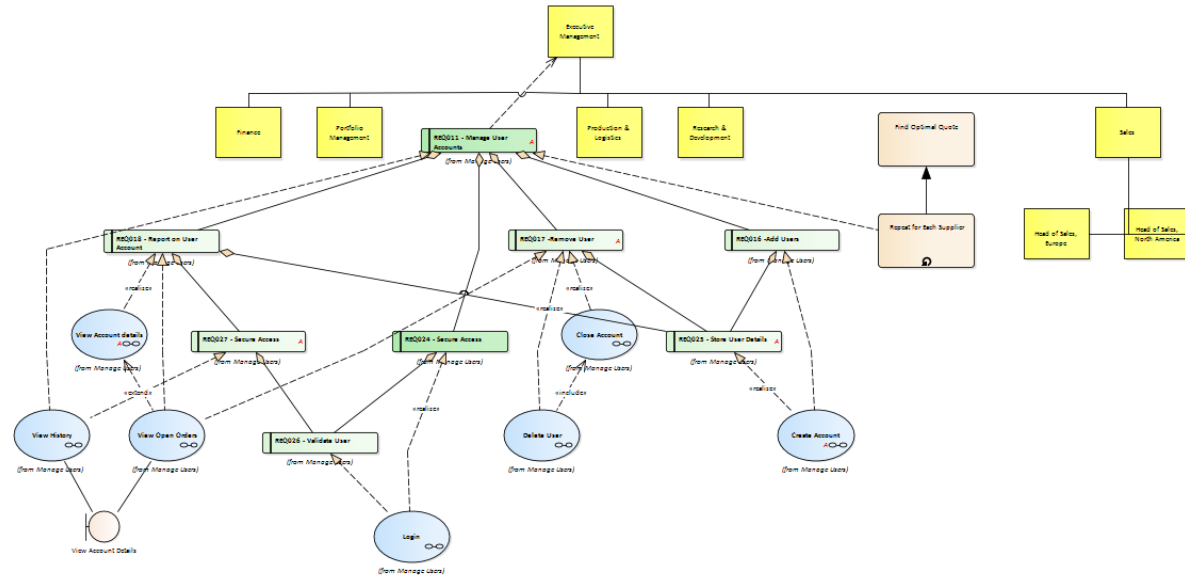
Traceability View

- Can be dynamic
- Easy to drill down
- Follow a path from strategy to implementation
- Context sensitive



Traceability for True Impact Analysis

- Automatic
- Can identify unforeseen relationships
- Hard to reach this insight with a whiteboard



Reuse

- Never create the same requirement
- Build up a library



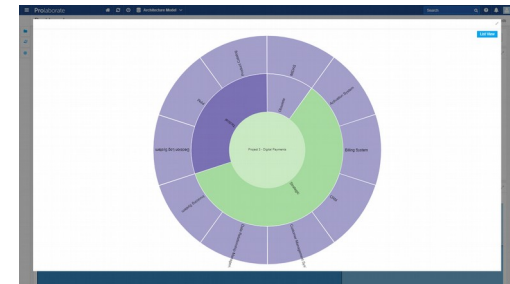
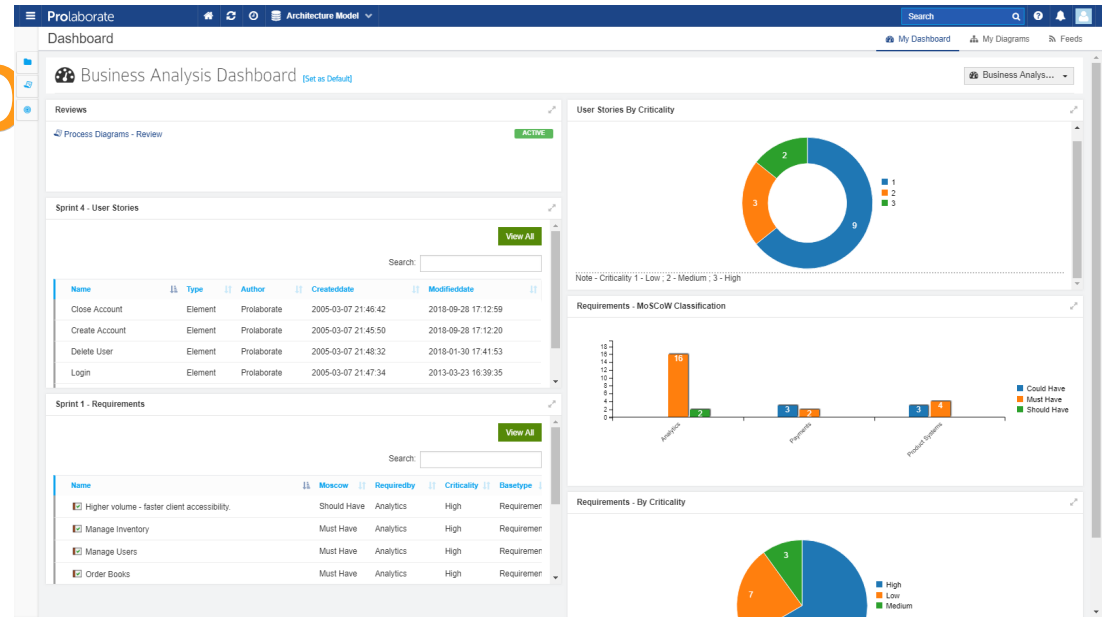
Retain Knowledge

- Specifications come out of dusty draws
- Maintainable for years
- Doesn't require a “knowledge silo” to remember the decisions made 10 years earlier



Communication

- Web based dashboards
- Curated views
- Easily consumable
- Socialize your business
- Provides real time analysis of the current model



Prolaborate



Decisions - DMN

- Decision Model and Notation (DMN) is intended to provide a bridge between business process models and decision logic models
- Build, edit and execute a Decision Table
- Bridges Business and IT
- Puts the power in your hands
- Validate rule models to find and eliminate logical errors



Decision Model and Notation

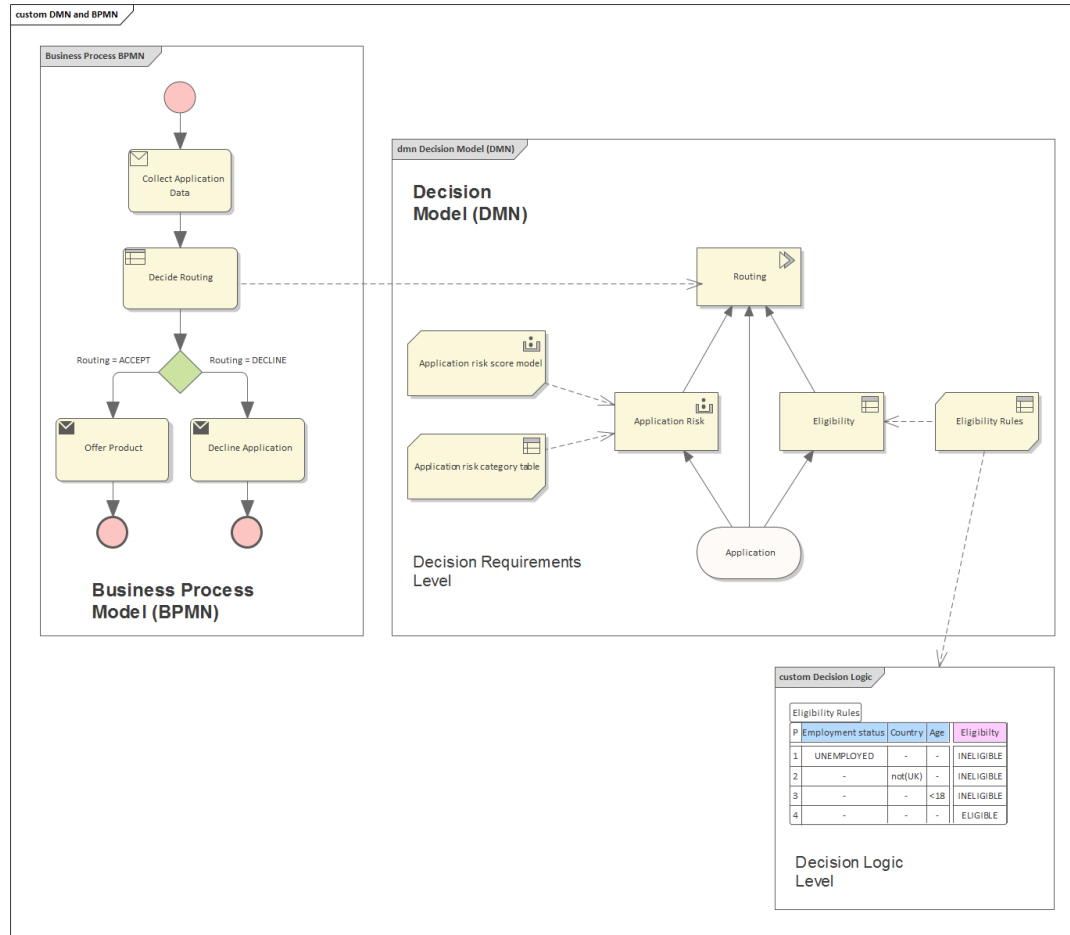
- Easy to use interface that both business and IT can use
- Spread Sheet look and feel
- Easy to modify programming logic
- Generate source code directly to your solution.
- The basis for AI

The screenshot displays a DMN interface. At the top, a diagram shows an 'Applicant data' node (Age = 40, Employment Status = 'EMPLOYED', Marital Status = 'M') feeding into an 'Application risk score model' node, which outputs a score of 154. Below the diagram, the 'DMN Expression' section shows a table for 'Application risk score model' with 'Input Parameter Values for Simulation' (Age = 40, Marital Status = M, Employment Status = EMPLOYED). The table lists 11 rows of rules with their respective partial scores.

(Age = 40, Marital Status = M, Employment Status = EMPLOYED)				
C+	Age	Marital Status	Employment Status	Partial score
1	[18..21]	-	-	32
2	[22..25]	-	-	35
3	[26..35]	-	-	40
4	[36..49]	-	-	43
5	>= 50	-	-	48
6	-	S	-	25
7	-	M	-	45
8	-	-	UNEMPLOYED	15
9	-	-	STUDENT	18
10	-	-	EMPLOYED	66
11	-	-	SELF-EMPLOYED	36



Model Complex Decisions



DMN – Code Generation

(Age = 40, Marital Status = M, Employment Status = EMPLOYED)				
C+	Age	Marital Status	Employment Status	Partial score
	40	M	EMPLOYED	154
1	[18..21]	-	-	32
2	[22..25]	-	-	35
3	[26..35]	-	-	40
4	[36..49]	-	-	43
5	>=50	-	-	48
6	-	S	-	25
7	-	M	-	45
8	-	-	UNEMPLOYED	15
9	-	-	STUDENT	18
10	-	-	EMPLOYED	66
11	-	-	SELF-EMPLOYED	36

```
52 //Business Knowledge Model Definitions
53 //Function Defined In: "Application_risk_score_model", Request Output:"
54 public static double Application_risk_score_model_Partial_score(double
55 {
56     //DecisionTable HitPolicy: "COLLECT"; Request Output: "Partial_score
57     ArrayList<Double> Partial_score_collection = new ArrayList<>();
58     //DecisionTable Rule Definitions Begin
59     //Rule #: 1
60     if ((Age)>=18 && (Age)<=21)
61     {
62         double outputEntryValue = 32;
63         Partial_score_collection.add(outputEntryValue);
64     }
65     //Rule #: 2
66     if ((Age)>=22 && (Age)<=25)
67     {
68         double outputEntryValue = 35;
69         Partial_score_collection.add(outputEntryValue);
70     }
71     //Rule #: 3
72     if ((Age)>=26 && (Age)<=35)
73     {
74         double outputEntryValue = 40;
75         Partial_score_collection.add(outputEntryValue);
76     }
77     //Rule #: 4
78     if ((Age)>=36 && (Age)<=49)
79     {
80         double outputEntryValue = 43;
81         Partial_score_collection.add(outputEntryValue);
82     }
83     //Rule #: 5
84     if ((Age)>=50)
85     {
86         double outputEntryValue = 48;
87         Partial_score_collection.add(outputEntryValue);
88     }
89     //Rule #: 6
90     if ((Marital_Status).equals("S"))
91     {
92         double outputEntryValue = 25;
93         Partial_score_collection.add(outputEntryValue);
94     }
95     //Rule #: 7
96     if ((Marital_Status).equals("M"))
97     {
98         double outputEntryValue = 45;
99         Partial_score_collection.add(outputEntryValue);
```



DMN Generation

- Generate to a number of different languages
- Use tree structure to develop extremely complex decisions
- Can test the decisions in the tool
- Rapidly change logic without editing code
- Integrates seamlessly to simulate business processes and logic

```
52 //Business Knowledge Model Definitions
53 //Function Defined In: "Application_risk_score_model", Request Output:"
54 public static double Application_risk_score_model_Partial_score(Double
55 {
56     //DecisionTable HitPolicy: "COLLECT"; Request Output: "Partial_score
57     ArrayList<Double> Partial_score_collection = new ArrayList<>();
58     //DecisionTable Rule Definitions Begin
59     //Rule #: 1
60     if((Age)>=18 && (Age)<=21)
61     {
62         double outputEntryValue = 32;
63         Partial_score_collection.add(outputEntryValue);
64     }
65     //Rule #: 2
66     if((Age)>=22 && (Age)<=25)
67     {
68         double outputEntryValue = 35;
69         Partial_score_collection.add(outputEntryValue);
70     }
71     //Rule #: 3
72     if((Age)>=26 && (Age)<=35)
73     {
74         double outputEntryValue = 40;
75         Partial_score_collection.add(outputEntryValue);
76     }
77     //Rule #: 4
78     if((Age)>=36 && (Age)<=49)
79     {
80         double outputEntryValue = 43;
81         Partial_score_collection.add(outputEntryValue);
82     }
83     //Rule #: 5
84     if((Age)>=50)
85     {
86         double outputEntryValue = 48;
87         Partial_score_collection.add(outputEntryValue);
88     }
89     //Rule #: 6
90     if((Marital_Status).equals("S"))
91     {
92         double outputEntryValue = 25;
93         Partial_score_collection.add(outputEntryValue);
94     }
95     //Rule #: 7
96     if((Marital_Status).equals("M"))
97     {
98         double outputEntryValue = 45;
99         Partial_score_collection.add(outputEntryValue);
```



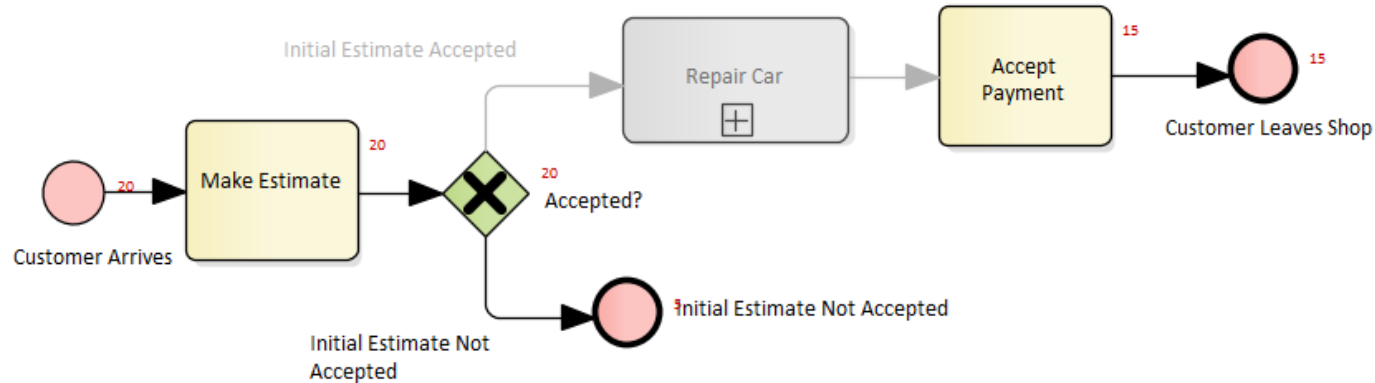
Simulation - BPSim

- Comprehensive simulation of processes
- Integrates in with BPMN
- Run and store results from multiple simulations
- Better understand your process



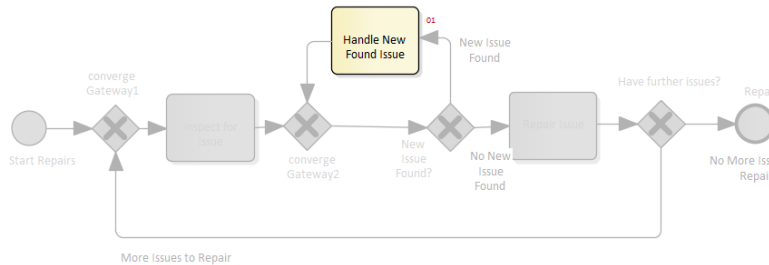
Simulation - BPSim

- Comprehensive simulation of processes



Simulation - BPSim

- Step through simulation events
- Know how the simulation ran at any point



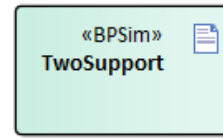
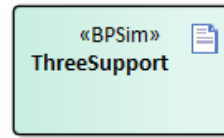
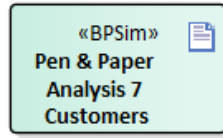
The screenshot shows the BPSim software interface with the 'Step' tab selected. The 'Tokens' tab is active, displaying a table of simulation events for token ID 01. The table columns are Token ID, Element, Action, Relative Time, and Absolute Time.

Token ID	Element	Action	Relative Time	Absolute Time
01	Accepted?	Leave	024	22/06/2016 9:24:00 AM
01	Start Repairs	Enter	024	22/06/2016 9:24:00 AM
01	Start Repairs	Leave	024	22/06/2016 9:24:00 AM
01	converge Gateway1	Enter	024	22/06/2016 9:24:00 AM
01	converge Gateway1	Leave	024	22/06/2016 9:24:00 AM
01	Inspect for issue	Enter	024	22/06/2016 9:24:00 AM
01	Inspect for issue	Leave	024	22/06/2016 9:24:00 AM
01	converge Gateway2	Enter	024	22/06/2016 9:24:00 AM
01	converge Gateway2	Leave	024	22/06/2016 9:24:00 AM
01	New Issue Found?	Enter	024	22/06/2016 9:24:00 AM
01	New Issue Found?	Leave	024	22/06/2016 9:24:00 AM
01	Handle New Found Issue	Enter	024	22/06/2016 9:24:00 AM
01	Handle New Found Issue	Leave	024	22/06/2016 9:24:00 AM
01	converge Gateway2	Enter	024	22/06/2016 9:24:00 AM
01	converge Gateway2	Leave	024	22/06/2016 9:24:00 AM
01	New Issue Found?	Enter	024	22/06/2016 9:24:00 AM
01	New Issue Found?	Leave	024	22/06/2016 9:24:00 AM
01	Repair Issue	Enter	024	22/06/2016 9:24:00 AM
01	Repair Issue	Leave	024	22/06/2016 9:24:00 AM
01	Have further issues?	Enter	024	22/06/2016 9:24:00 AM
01	Have further issues?	Leave	024	22/06/2016 9:24:00 AM
01	converge Gateway1	Enter	024	22/06/2016 9:24:00 AM
01	converge Gateway1	Leave	024	22/06/2016 9:24:00 AM
01	Inspect for issue	Enter	024	22/06/2016 9:24:00 AM
01	Inspect for issue	Leave	024	22/06/2016 9:24:00 AM
01	converge Gateway2	Enter	024	22/06/2016 9:24:00 AM



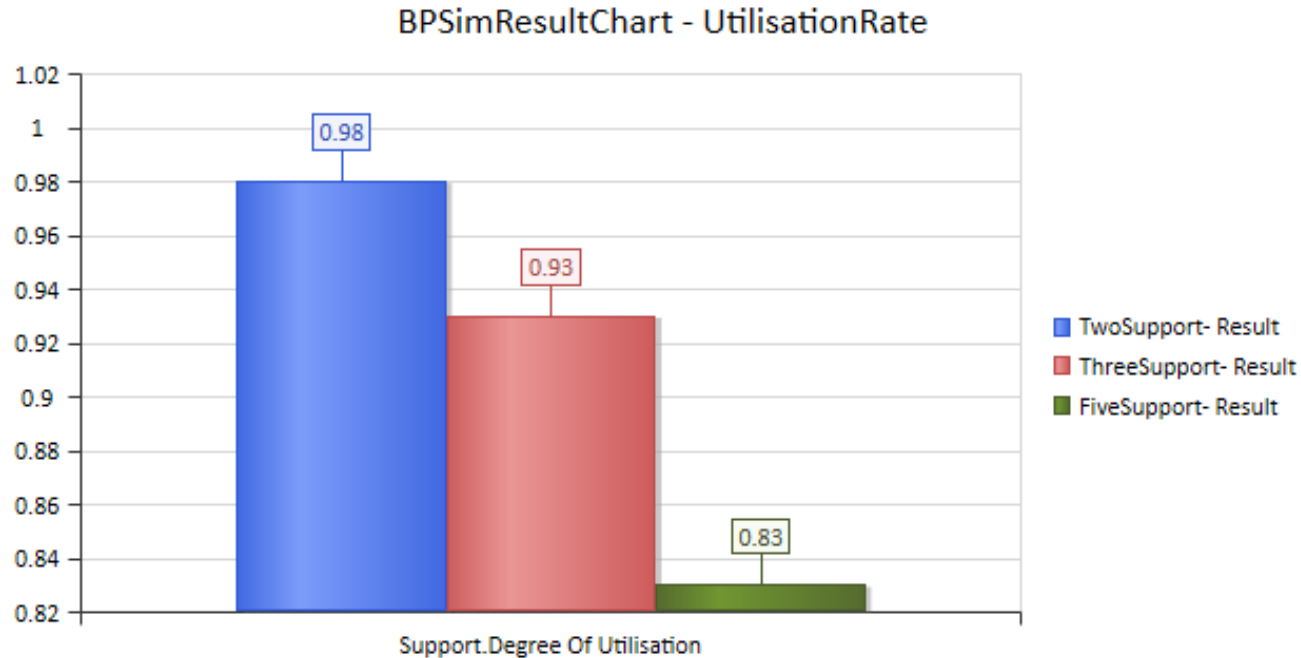
Simulation - BPSim

- Multiple simulation configurations outside the process
 - Able to ask “What if” questions

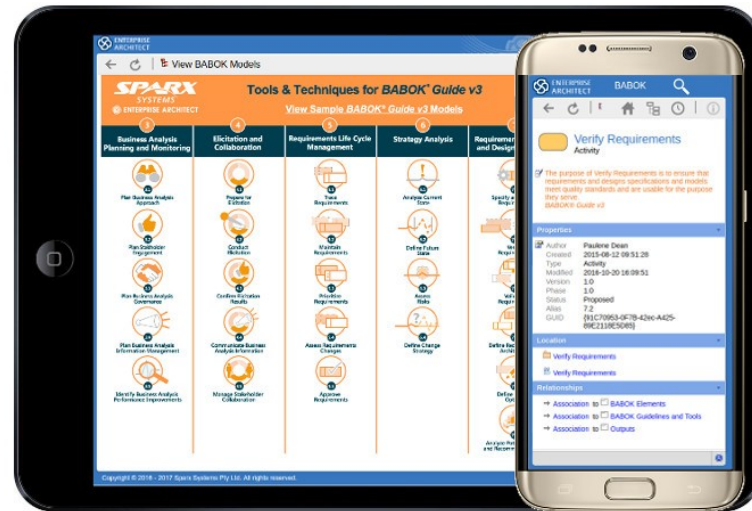


Simulation - BPSim

- Use charts and graphs to display the results



Sharing Models



Documents Templates

Model Report

Manage Users

Version 1.0 • Proposed

Table of Contents

1	Manage Users	6
1.1	Manage Users diagram	6
1.2	AccountAdmin	6
1.3	Administrator	7
1.3.1	Client	8
1.4	Client	10
1.5	Online Bookstore	12
1.6	Test	12
1.7	Traceability - ManageUsers	12
1.8	Traceability Model - Impact Analysis	12
1.9	Display Account Balance	12
1.10	Close Account	16
1.10.1	Close Account diagram	18
1.10.2	Close Account diagram	20
1.10.3	Client	21
1.10.4	Account-Webstore diagram	23
1.10.5	Check for Outstanding Orders	24
1.10.6	Close Account	24
1.10.7	Get Confirmation	25
1.10.8	Load Account Details	25
1.10.9	Mark Account Closed	26
1.10.10	Object	26
1.10.11	AccountDetails	26
1.10.12	CheckOrder	26
1.10.13	Confirm	27
1.10.14	Sequence	27
1.11	Create Account	27
2	Scope	31
3	System Design	31
4	Objectives	31
5	Risks	31
6	Requirements	31
7	Scenarios	31
7.1.1	Create Account diagram	33
7.1.2	Account-Webstore diagram	35
7.1.3	Create Account diagram	35
7.1.4	Client	36
7.1.5	Account	38
7.1.6	Create Account	38
7.1.7	Create New Account	39
7.1.8	Submit New Account Details	39
7.1.9	Interaction/Fragment	39
7.1.10	Object	40
7.1.11	Object	40
7.1.12	Sequence	40
7.2	Delete User	40
7.2.1	Delete User diagram	42



Date/Time Generated:
Author:

30/05/2018 1:11:26 AM
The Administrator

EA Repository - C:\Users\System32\AppData\Local\Microsoft\Enterprise Architect\11-13\app

CREATED WITH ENTERPRISE ARCHITECT

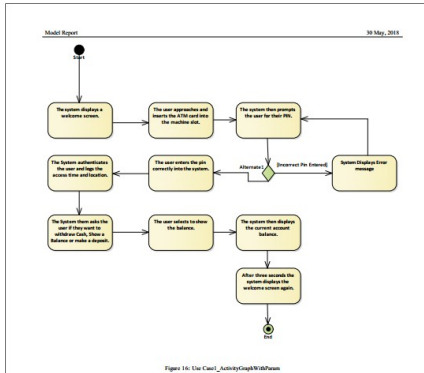


Figure 16: Use Case1_ActivityGraphWithParam

7.4.2.2 After three seconds the system displays the welcome screen again.

7.4.2.3

Activity named by 'Use Case1_ActivityGraphWithParam', in package 'Manage Users'

After three seconds the system displays the welcome screen again.

Version 1.0, Phase 1.0, Proposed
The Administrator created on 29/05/2018. Last modified 29/05/2018

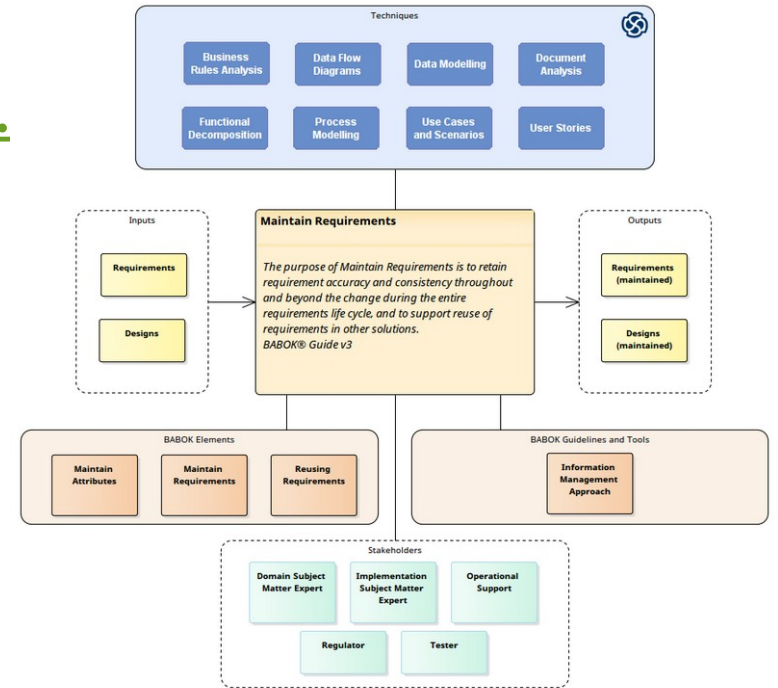
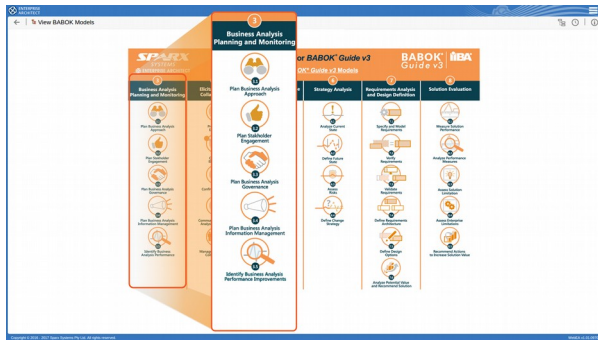
OUTGOING BEHAVIORAL RELATIONSHIPS
<ul style="list-style-type: none"> Control flow from: After three seconds the system displays the welcome screen again. to End
INCOMING BEHAVIORAL RELATIONSHIPS
<ul style="list-style-type: none"> Control flow from: The system then displays the current account balance. to After three seconds the system displays the

Model Report	30 May, 2018
Version 1.0, Phase 1.0, Proposed created on 19/11/2005. Last modified 17/10/2011	
SCENARIOS	
<p>Alternativ: Insecure PIN</p> <ol style="list-style-type: none"> User enters insecure PIN System displays Authentication Error System displays Welcome Screen after 3 seconds 	
<p>Basic Path: Invalid Card</p> <ol style="list-style-type: none"> User inserts an invalid Card System displays Card Invalid Error System displays Welcome Screen after 3 seconds 	
<p>Basic Path: Display Account Balance</p> <p>A high-level description of the use case:</p> <ol style="list-style-type: none"> System displays Welcome Screen User inserts Card Basic Path: Invalid Card System prompts for PIN User enters correct PIN Alternativ: Invalid PIN System authenticates user and logs access time and location System prompts: Withdraw Cash, Show Balance, Make Deposit User selects: Show Balance System displays current Account balance System displays Welcome Screen after 3 seconds 	
CONNECTORS	
<p>Trace source Source to Destination</p> <p>From: Display Account Balance_Test_Case1 : UseCase, Public To: Display Account Balance : UseCase, Public</p>	
<p>Dependency source Source to Destination</p> <p>From: Display Account Balance_Test_Case1 : UseCase, Public To: Display Account Balance : UseCase, Public</p>	
<p>Trace source Source to Destination</p> <p>From: Display Account Balance_Test_Case1 : UseCase, Public To: Display Account Balance : UseCase, Public</p>	
<p>Dependency source Source to Destination</p> <p>From: Display Account Balance_Test_Case1 : UseCase, Public To: Display Account Balance : UseCase, Public</p>	
ASSOCIATIONS	
<p>Association (direction: Unspecified)</p> <p>Source: Public (Actor) Administrator Target: Public (UseCase) Display Account Balance</p>	



BABOK Reference Guide

- Freely available
- <http://babok.sparxpublic.com/index>.
- Access Code: babok.model



BABOK Reference Guide

- Modeling Options
- Diagrams and Tools list
- Fleshed out examples
- Access to help

