Quick Overview of Original MOSES Proposal

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MOSES-2016 Workshop

- Economics, finance and business
- Systems approach and Modelica technology
- Ecology with world planetary boundaries

- Financial World model (FWORLD) toolbox for investigating scenarios towards a sustainable society
MOSES Project Original Planned Sub-projects

- P3 – Extended World Model Architecture and Tool Support
- P4 – Planetary Boundaries and the circular economy
- P5 – Managing financial stability towards sustainability
- P6 – Achieving Sustainable Economic Development A Comparative Study of Alternative Monetary Systems
- P7 – Sustainable Financial Systems, climate & energy
- P8 – The Real World Experiment Project
## Sub-projects and Sub-Sub-Projects

<table>
<thead>
<tr>
<th>Project Code</th>
<th>Project Description</th>
<th>WP1</th>
<th>WP2</th>
<th>WP3</th>
<th>WP4</th>
<th>WP5</th>
<th>WP6</th>
<th>WP7</th>
<th>WP8</th>
</tr>
</thead>
<tbody>
<tr>
<td>P3</td>
<td>Extended World Model Architecture and Tool support</td>
<td>WP3.1</td>
<td>WP3.2</td>
<td>WP3.3</td>
<td>WP3.4</td>
<td>WP3.5</td>
<td>WP3.6</td>
<td>WP3.7</td>
<td>WP3.8</td>
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<td>P4</td>
<td>Planetary Boundaries and the circular economy</td>
<td>WP4.1</td>
<td>WP4.2</td>
<td>WP4.3</td>
<td>WP4.4</td>
<td>WP4.5</td>
<td>WP4.6</td>
<td>WP4.7</td>
<td>WP4.8</td>
</tr>
<tr>
<td>P5</td>
<td>Managing financial stability towards sustainability</td>
<td>WP5.1</td>
<td>WP5.2</td>
<td>WP5.3</td>
<td>WP5.4</td>
<td>WP5.5</td>
<td>WP5.6</td>
<td>WP5.7</td>
<td>WP5.8</td>
</tr>
<tr>
<td>P6</td>
<td>Achieving Sustainable Economic Development</td>
<td>WP6.1</td>
<td>WP6.2</td>
<td>WP6.3</td>
<td>WP6.4</td>
<td>WP6.5</td>
<td>WP6.6</td>
<td>WP6.7</td>
<td>WP6.8</td>
</tr>
<tr>
<td>P7</td>
<td>Sustainable Financial Systems, climate &amp; energy</td>
<td>WP7.1</td>
<td>WP7.2</td>
<td>WP7.3</td>
<td>WP7.4</td>
<td>WP7.5</td>
<td>WP7.6</td>
<td>WP7.7</td>
<td>WP7.8</td>
</tr>
<tr>
<td>P8</td>
<td>The Real World Experiment Project</td>
<td>WP8.1</td>
<td>WP8.2</td>
<td>WP8.3</td>
<td>WP8.4</td>
<td>WP8.5</td>
<td>WP8.6</td>
<td>WP8.7</td>
<td>WP8.8</td>
</tr>
</tbody>
</table>
P8 MOSES – Interactions Models – Real-World Demonstrators

MOSES Start

Modelling

New modelling

MOSES Goal

Real-world activity platforms

Discuss

Act

Present

Demonstrate

Prioritize

Think

Analyze

Evaluate

Combine

Explain

Project 8 in MOSES
MOSES Project Important Points

• World-leading Modelica modeling, simulation, and analysis techniques applied to financial systems,

• FWorld Financial System comprehensive modeling inspired by World3 (Modelica version)

• Financial Systems Modeling integrated with Ecological and Societal issues, allowing non-linearities

• Techniques for handling financial system model variants – explore different assumptions

• Sensitivity analysis of model parameter settings

• Uncertainty handling in models and stochastic data

• Dynamic optimization (moving horizon optimization) of financial system model

• Analysis use cases

• Application case studies