



## Workshop: Green Economy Modelling

### Implementing the Green State Development Strategy: Vision 2040

Day 1: Monday 11<sup>th</sup> March 2019

Venue: TBA

Number of participants: 20

Agenda	Suggested Topics	Discussion
8:30 – 9:00	Participant Registration	Ministry of Finance/UN Environment/GSDS Coordination Office
<b>Session 1: Workshop Opening and Introduction</b>		
9:00 – 9:15	Welcome and Introduction	Chair: Mrs. Sonya Roopnauth, Director, Office of Budget, Ministry of Finance
9:15 – 9:30	Workshop Background and Objective	Ms. Adriana Zacarias Farah, Regional Coordinator, Resource Efficiency Sub-programme, UN Environment, ROLAC, TBC
<b>Session 2: Introduction to System Dynamics Modelling: Methods and Models</b>		
9:30 – 10:15	Background on models and approaches	Mr. Andrea Bassi, CEO, KnowlEdge Srl
10:15 – 10:30	Interactive discussion	
10:30 – 10:45	Coffee Break	
10:45 – 11:30	Systems Thinking and System Dynamics	
11:30 – 11:45	Interactive discussion	
11:45 – 12:30	Overview of the modeling work for Guyana: <ul style="list-style-type: none"> <li>• Review of the model, key sectors and indicators</li> <li>• Summary of results</li> </ul>	
12:30 – 12:45	Interactive discussion	
12:45 – 13:30	Lunch	
<b>Session 3: Model Simulation Exercises</b>		
13:30 – 15:00	Introduction to Vensim (Causal Loop Diagram)	Mr. Andrea Bassi
15:00 – 15:15	Coffee Break	
15:15 – 16:45	Introduction to Vensim, guided exercise (Stock and flow model)	
16:45 – 17:00	Summary and Preview of Day 2	

Day 2: Tuesday 12<sup>th</sup> March 2019

Venue: TBA



Agenda	Suggested Topics	Discussion
9:00 – 9:15	Review of Day 1 & Overview of Day 2	Mr. Andrea Bassi
Session 4: Practical Exercises on the Guyana SD Model		
9:15 – 12:30	<ul style="list-style-type: none"><li>• How to change data and inputs</li><li>• How to simulate the model and run new scenarios</li><li>• How to find relevant variables and analyze the results</li></ul>	
12:30 – 13:30		Lunch
Session 5: Interpreting Results, Cost Benefit Analysis (CBA)		
13:30 – 15:30	<ul style="list-style-type: none"><li>• Introduction to CBAs, concept and key indicators</li><li>• Exercises for conventional vs integrated (or societal) CBA</li><li>• Case studies for the creation of CBAs with simulation models</li></ul>	
15:30 – 15:45		Coffee Break
Session 6: Workshop Conclusions and Closing		
15:45 – 16:30	Q&A	Mr. Andrea Bassi
16:30	Closing remarks	Ministry of Finance