



Capacity Building for Agenda 2030



Model Management Interface (MoManI) for OSeMOSYS

Supporting Development Investments and INDCs

Mark Howells, Abhishek Shivakumar, Martynas Pelakaukas, Yousef Allmulla, Andrii Gritsevskyi

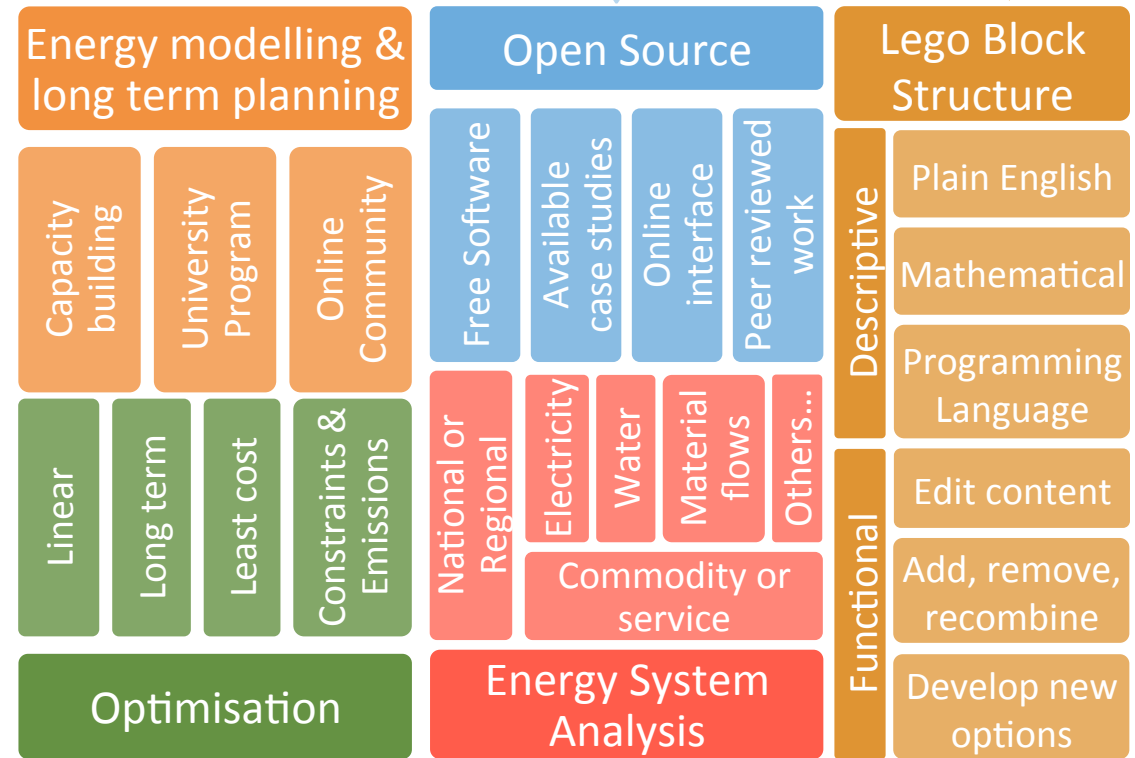
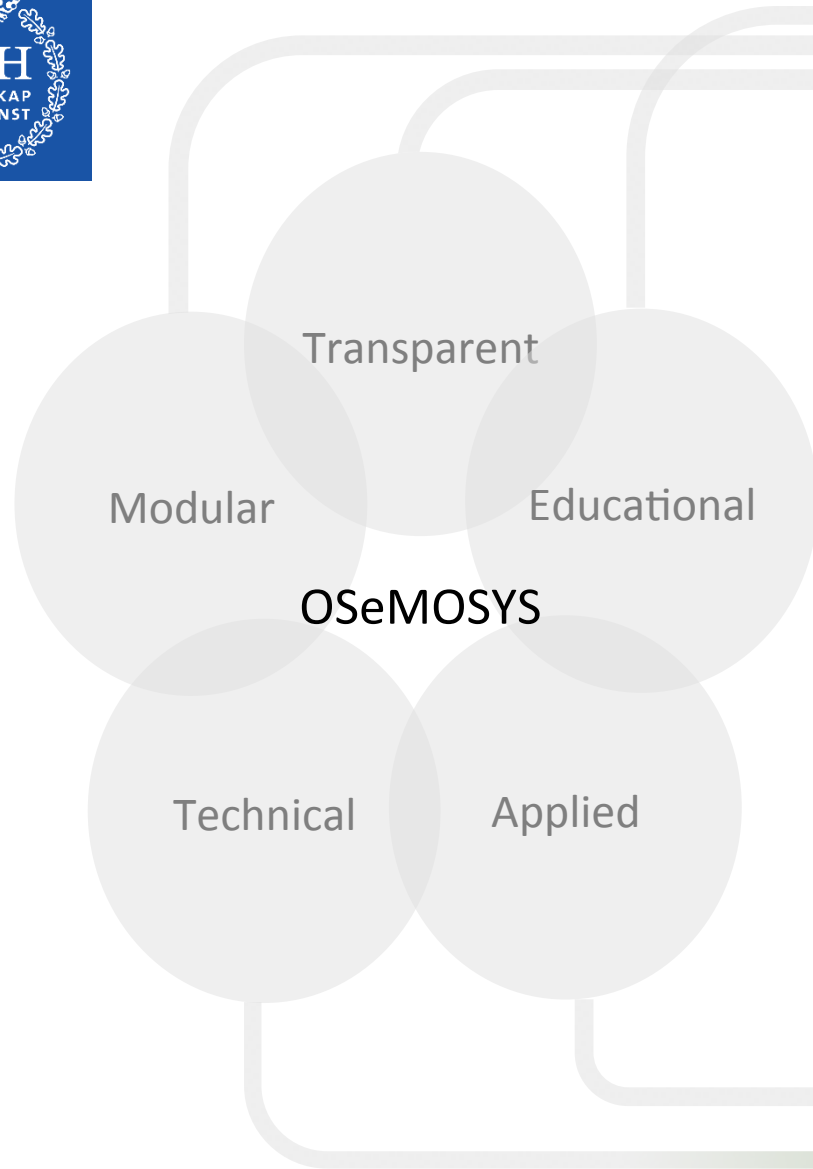
Modelling Tools

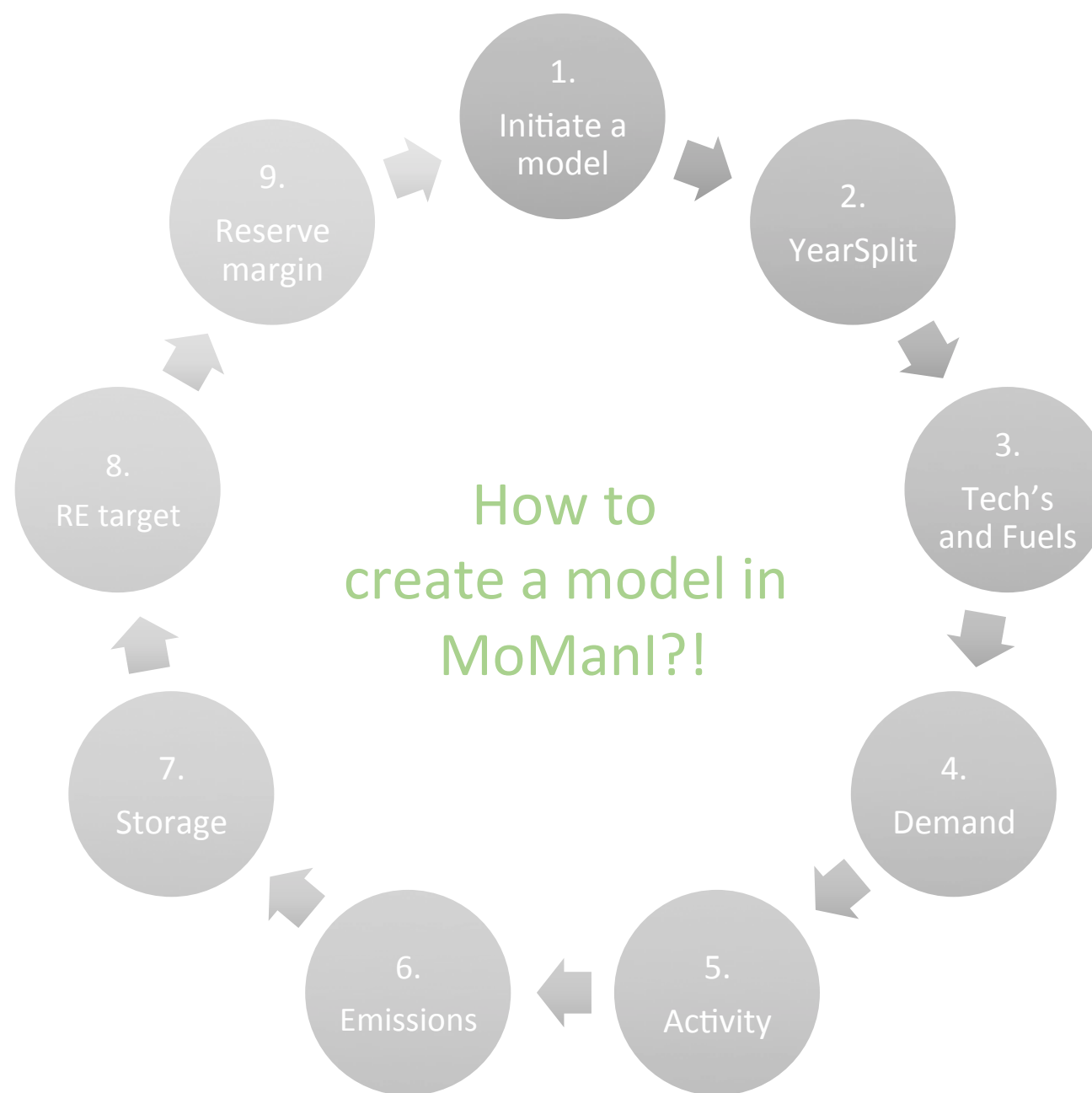
for Sustainable Development Policies

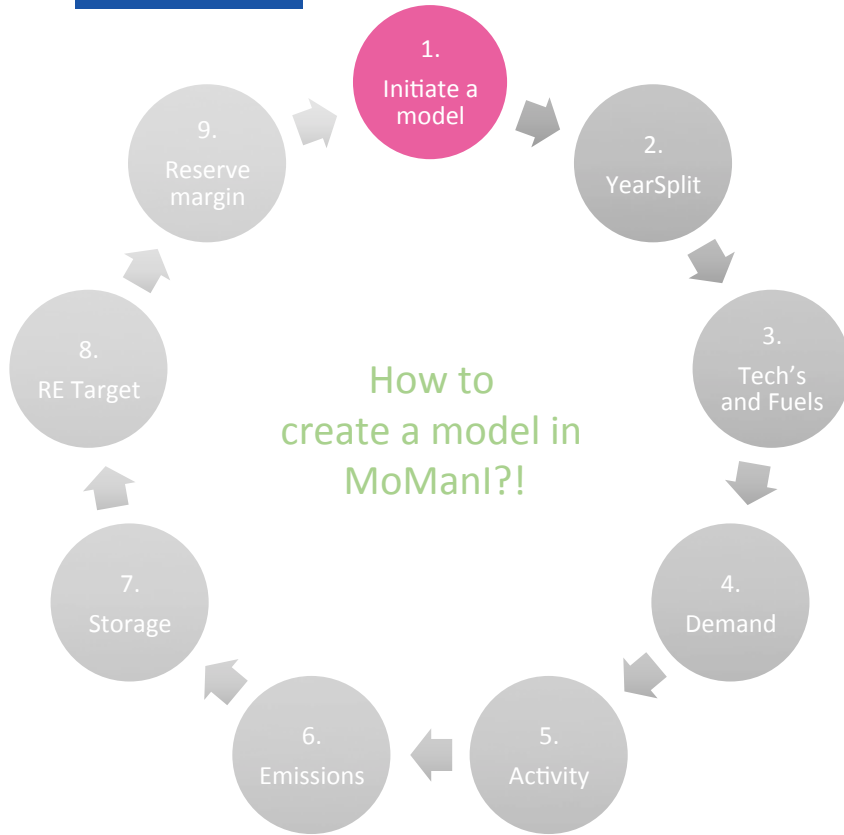
“ [...] the United Nations shall promote:
higher standards of living, full
employment, and conditions of economic
and social progress and development.

– UN Charter, Art. 55 a ”









1. Initiate a model:

1.8 Depreciation method

1.7 Mode of Operation

1.6 Discount Rate

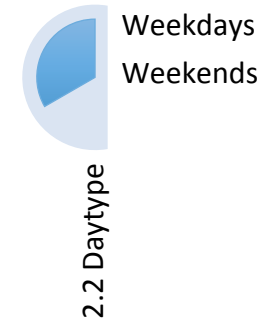
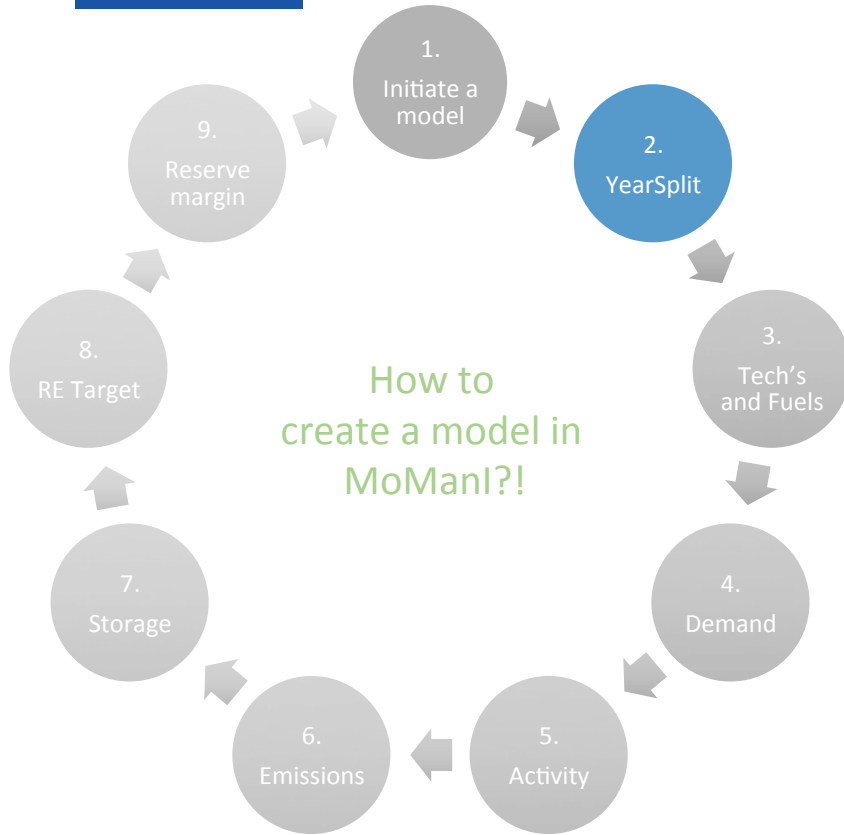
1.5 List of Fuels and Technologies

1.4 Region

1.3 Model years

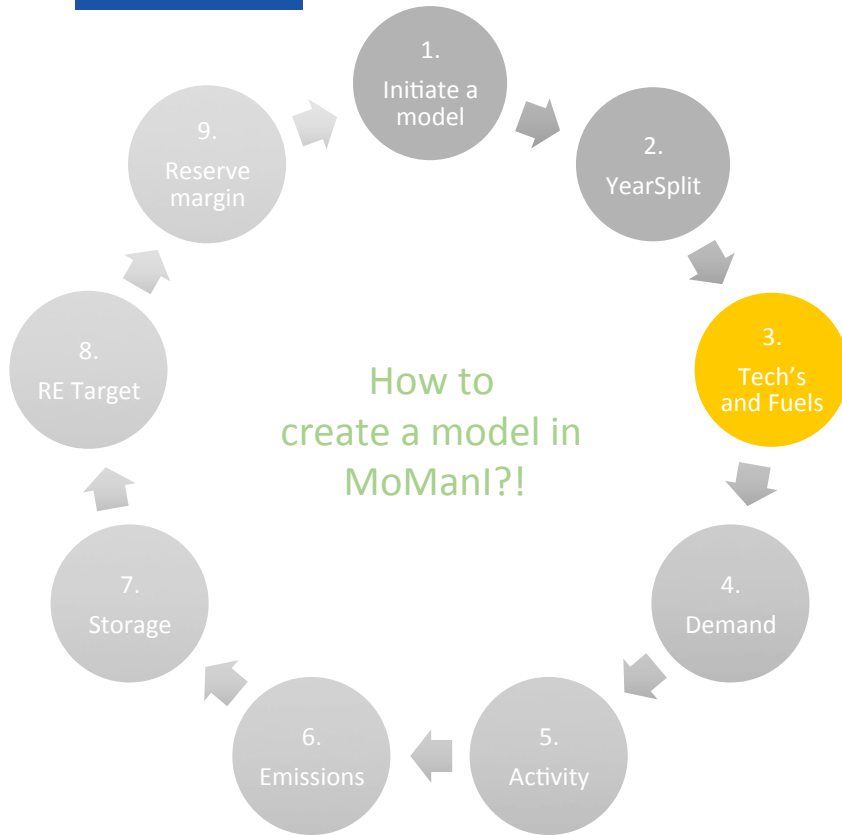
1.2 Select constraints

1.1 Name & description



2.4 TimeSclice					
ID	IN	SD	SN	WD	WN

Year Split	
Measure the duration of the timesclice.	The sum of each entry over the year should =1



3.1 Costs

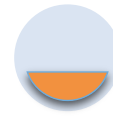
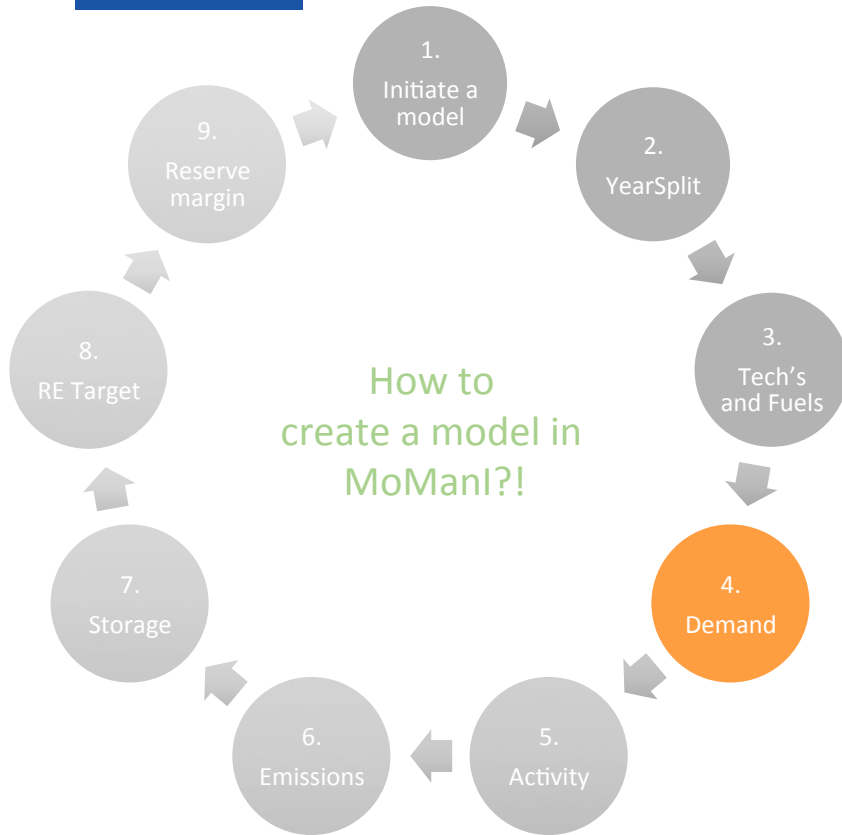
- Capital Cost
- Fixed Cost
- Variable Cost

3.2 Performance

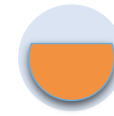
- Input Activity Ratio
- Output Activity Ratio
- Availability
- Capacity Factor

3.3 Capacity

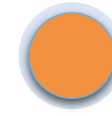
- Residual Capacity
- Total Annual Max Cap
- Total Annual Min Cap
- Total Annual Max Cap Investment
- Total Annual Min Cap Investment



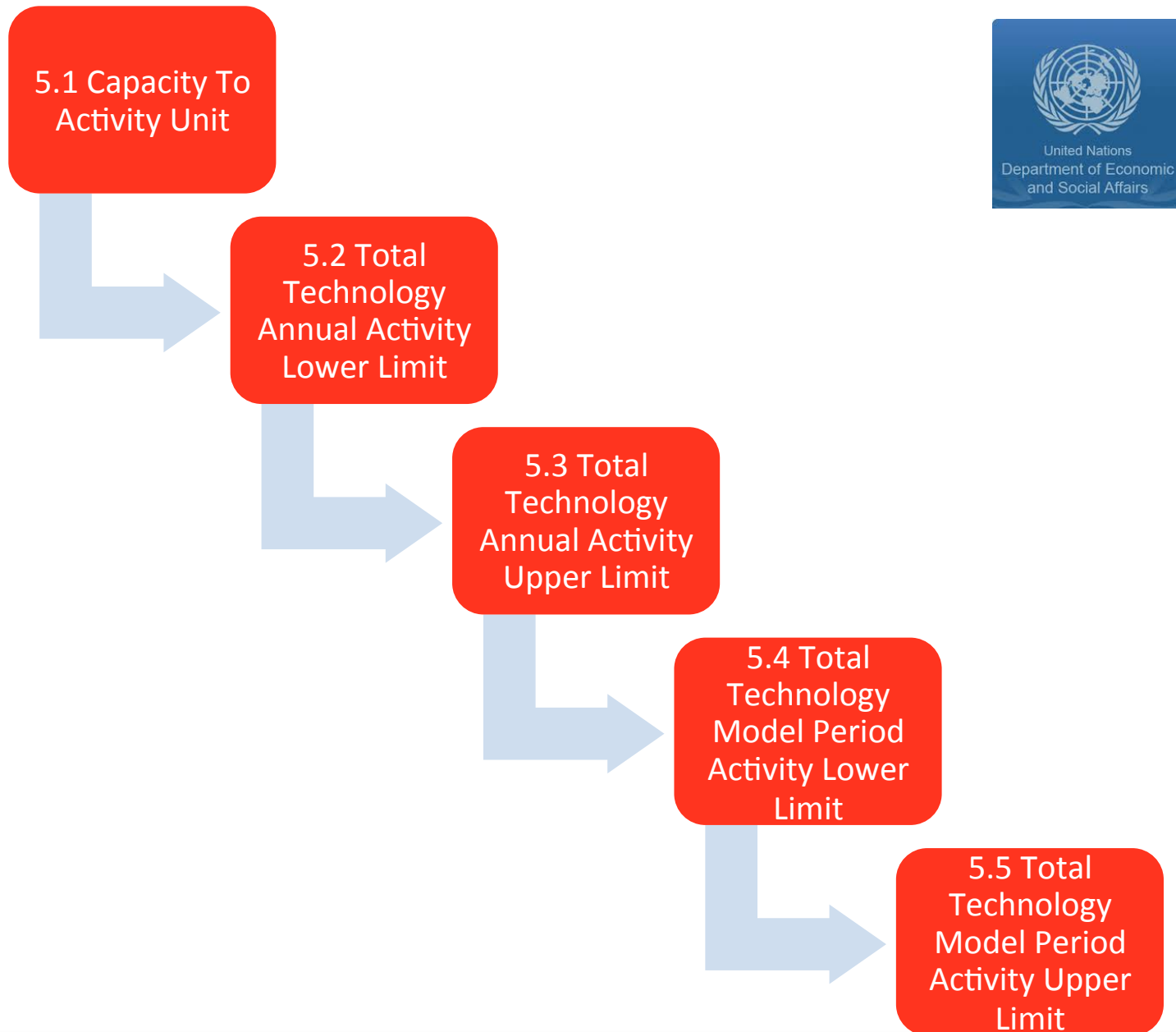
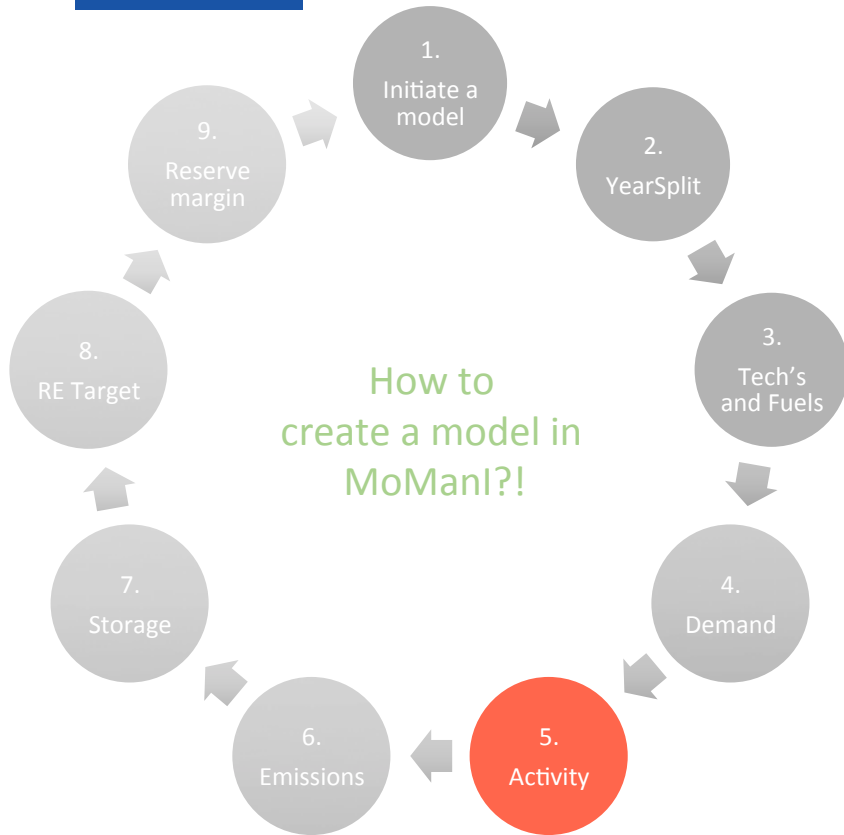
4.1
Specified
Annual Demand

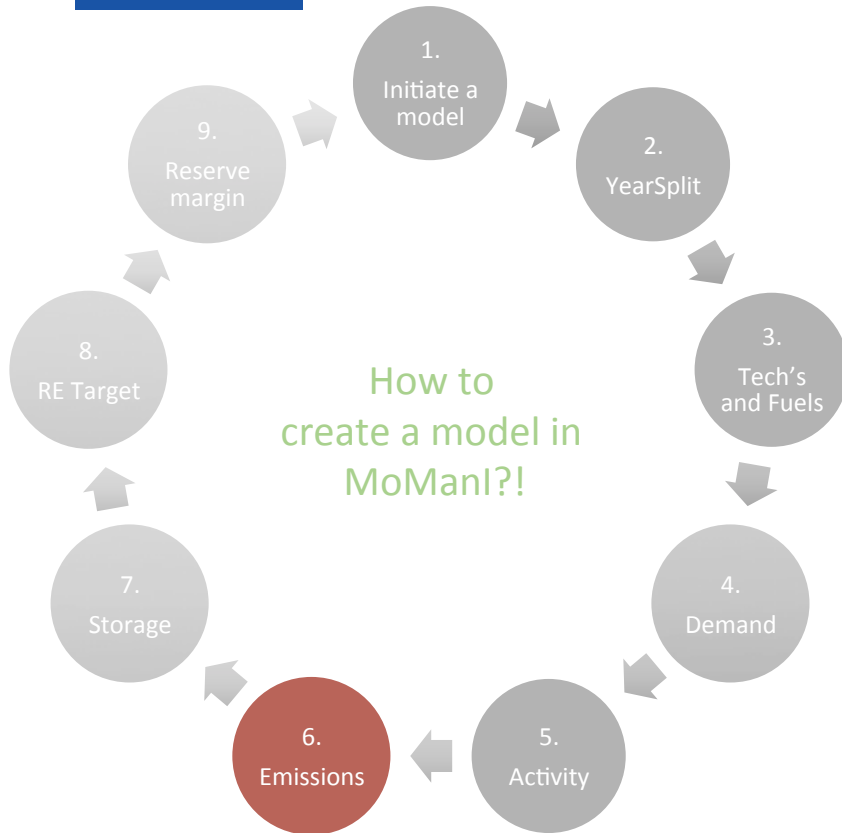


4.2
Specified
Demand Profile



4.3
Accumulated
Annual Demand
(usually set to
default = 0)





6.1 set "Emission": CO₂ , NO_x



6.2 AnnualEmissionLimit



6.3 AnnualExogenousEmissions



6.4 EmissionActivityRatio



6.5 EmissionsPenalty



6.6 ModelPeriodEmissionLimit



6.7 ModelPeriodExogenousEmission

