

## Developing Tools for Production Process Design & Optimisation

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### Objectives:

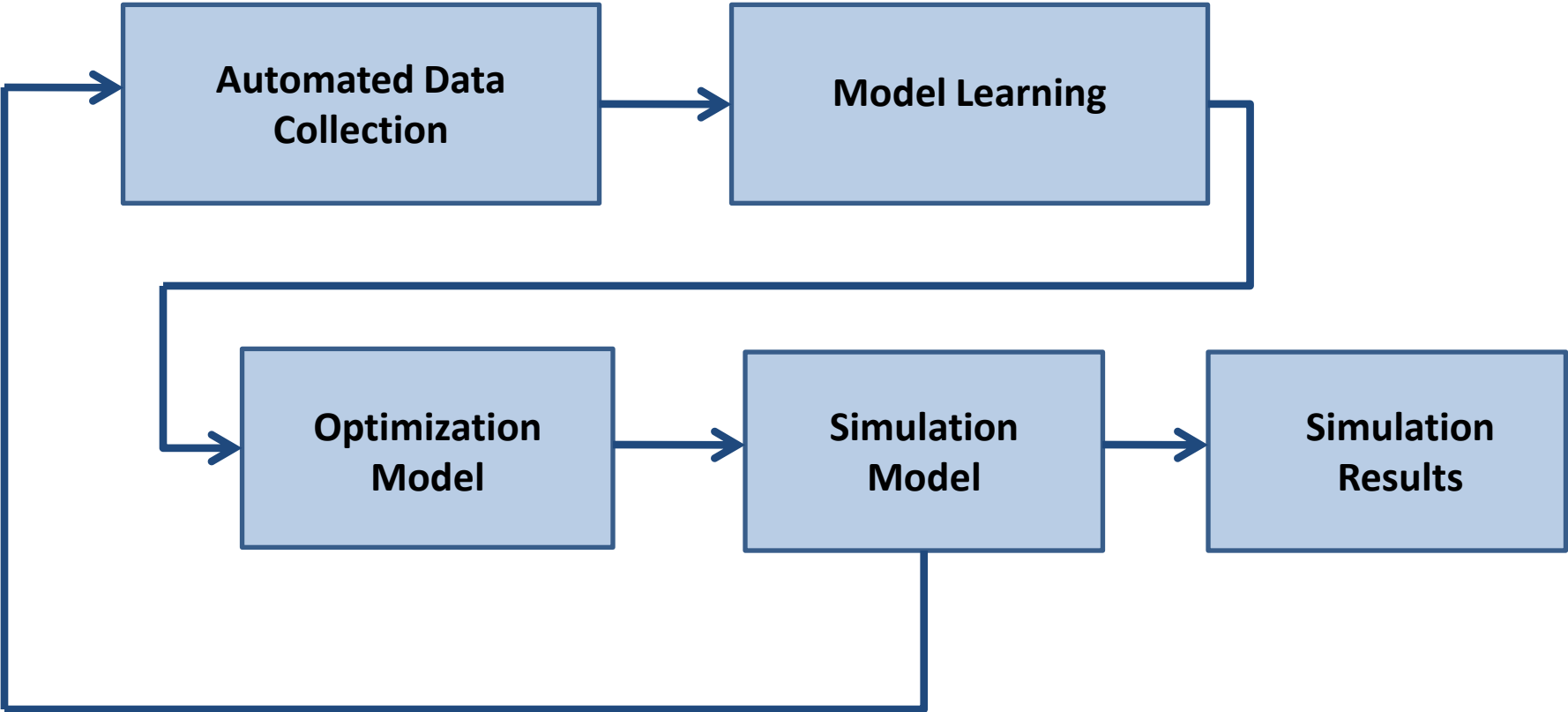
- [non-linear](#) process planning
- [robust optimisation](#) and scheduling of process chain
- Simulation of [dynamical systems](#) and [model based design](#) of [embedded systems](#).
- Real-time data collection and developing learning model

### Expected results:

- Throughput: to enhance throughput especially in an environment of changing product mix.
- Cycle time reductions
- To Reduce inventory levels without any loss of customer service
- Devise a flow optimiser tool
- Simplify the scheduling process while monitoring projected inventory and projected service levels along with reorder points and/or lead times, production quantities (lot sizes), installed capacity, make-up capacity, WIP level and the virtual queue

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Known Partners				
S.No	Partner Name	Type	Country	Role in the Project
	ARCELIK		Turkey	End - user
	University		Turkey	Modelling & Optimisation
	Institute		England	Modelling & Optimisation
Required Partners				
S.No	Profile	Type	Country	Role in the project
	Research Institute / University / Company	-	-	Coordinator
	Software Developer (PLC, etc)	-	-	User Interface, Deveoping Decision Engine
	Systems Integrator	-	-	
	Hardware Integrator	-	-	