Simulation of a Tyre Factory for a Leading Producer					
Tyre Industry AutoMOD		Bottleneck Analysi	s (Feasibility Study	Buffer Analysis
One of India's leading tyre manufacturers planned to install a conveyor system to replace manual trolleys that carried tyres through Tyre Building Machines (TBM), Curing Machines (TCMs) and Inspection stations.					TEM 1 TBM 2 TBM 2 TBM 3 TCM 1 TCM 1 TCM 2 TCM 3 TCM 3
 <u>Client's Challenge</u> Check feasibility and validate the proposal Identify and alleviate bottlenecks in the system Recommend alternatives design proposals if required 				 meet only about 30 % of th Insufficient number of en building machines, reduct Mismatch in production of TCMs After experimenting with se recommended the following 	at the client's proposal would eir monthly target due to: mpty hangers available at tyre sing tyre supply into the system and consumption at TBMs and everal what-if scenarios, we g changes to achieve their target
 PMI's Approach We carried out static analysis and 3D simulation to study in detail: TBM → TCM Sub-system with overhead conveyors measuring 600 meters in length TCM → Inspection Sub-system with similar features 	Costant Costanta Costant	Tyre Curing Machine Status: Green - Working Yellow - Waiting for SKU Red - Breakdown Machines Machines	Hangers	with defined rules for opeMinimum buffer to be us and inspection	er system of 3000 tyre capacity eration sed near tyre curing machines and number of carriers to be
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