

Business Model Canvas

Designed for:

OnTime

Designed by:

Ayman Madhour

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Version:

V1

Key Partners Rail Companies → Focus on Deutsche Bahn (DB) in first instance Rail Network Operators	Key Activities Develop recommendation for action to optimize railway networks and balance the load	Value Propositions The railway network is overloaded. Majority of the traffic happens on 60% of the railway network. Hence, some areas are under high load and in demand for more capacity. While more capacity requires huge investments and long-term planning, the proposed solution of OnTime is a reinforcement learning model, trained on a digital twin (copy of the real world) in order to learn optimal behavior for controlling signals and turnouts. This provides an ad-hoc solution to this problem through maximizing the use of the current network.	Customer Relationships Railway companies – provide blueprint for digital twin railway network operators – Need to be trained	Customer Segments Industry – benefiting from cargo arriving on time. Passengers – trains will be more punctual, hence more attractive for consumers. Rail companies – higher revenue as a result.
	Key Resources <ul style="list-style-type: none">• Developers/Engineers• Infrastructure to host inference		Channels Work closely with DB (pitch project directly) Work with industry (to solve DB Cargo issues)	
Cost Structure <ul style="list-style-type: none">• Model will be hosted on a compartmentalized infrastructure for security purposes<ul style="list-style-type: none">• Infrastructure architects• Security architects• Real-time data is fed through API<ul style="list-style-type: none">• Developers• Training for operating personnel• Maintenance			Revenue Streams <ul style="list-style-type: none">• “Punctuality as a Service”• Pay Per Turnout or Signal controlled by OnTime Inference	

