Value Proposition Canvas

Designed for:	Designed by:	Date:	Version:
OnTime	Ayman Madhour	07.06.2022	V1

Product

Benefits

The proposed solution of OnTime is a reinforcment 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 the high load of networks through maximizing the use of the current network.

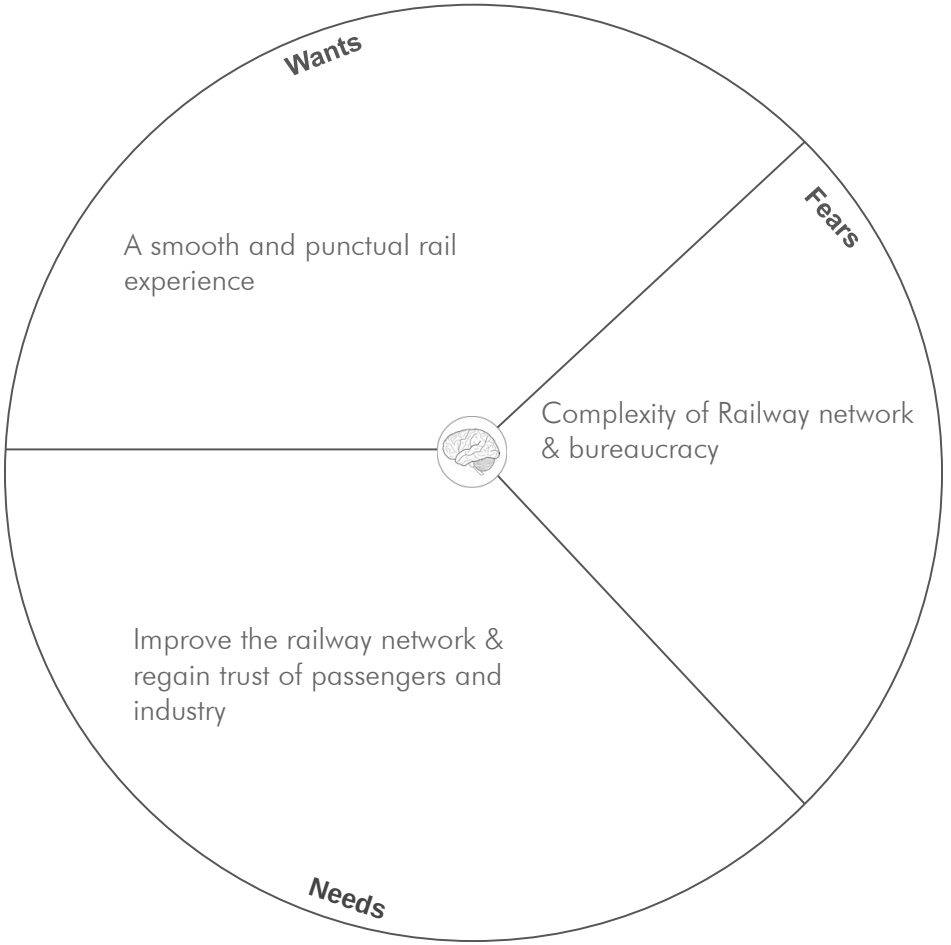
Features

- A reinforcement learning model, specifically trained on a digital twin of real railway networks.
- Reinforcement learning model is incentivized to be on time
- Optimal behaviour is applied to real railways as recommendation for action

Experience

- Current sentiment of the Deutsche Bahn (DB) is very negative
- DB has a long-lasting reputation of not being on punctual
- This is due to fundamental problems in the railway network with many areas being overloaded
- The proposed solution does not only provide a way to maximize/optimize the use of existing networks but also a way to shift the image of the DB
- As a result, the industry will regain confidence in DB Cargo and passengers will prefer travelling by train

Customer



Product
Recommendation for action based on reinforcement learning - "Punctuality"

Ideal Customer
Rail & Rail Network Companies, preferably Deutsche Bahn

Substitutes
Ship Cargo by trucks; Build out the railway network (long-term solution)