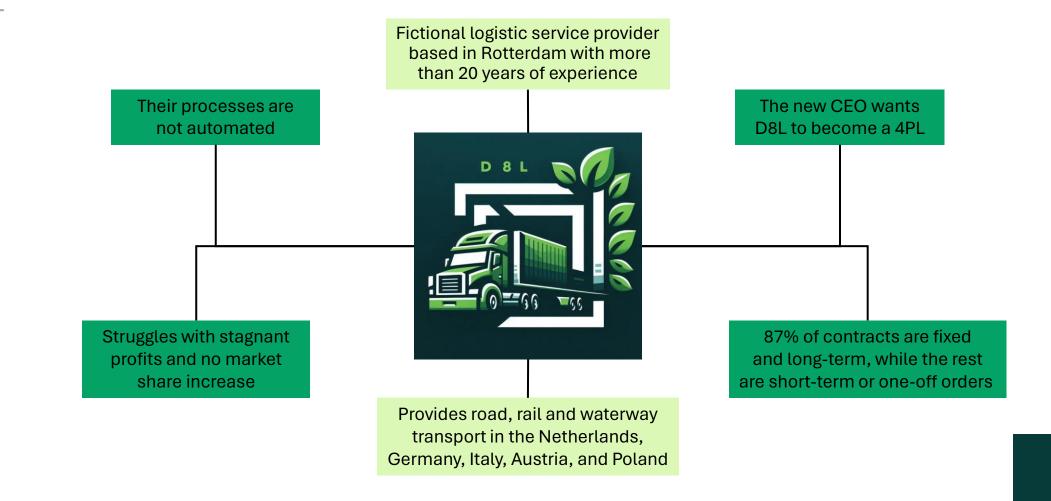


Jendrik Meyer Ishan Roy Piyush Singh Cristina Racoviță Bogdan Bîndilă

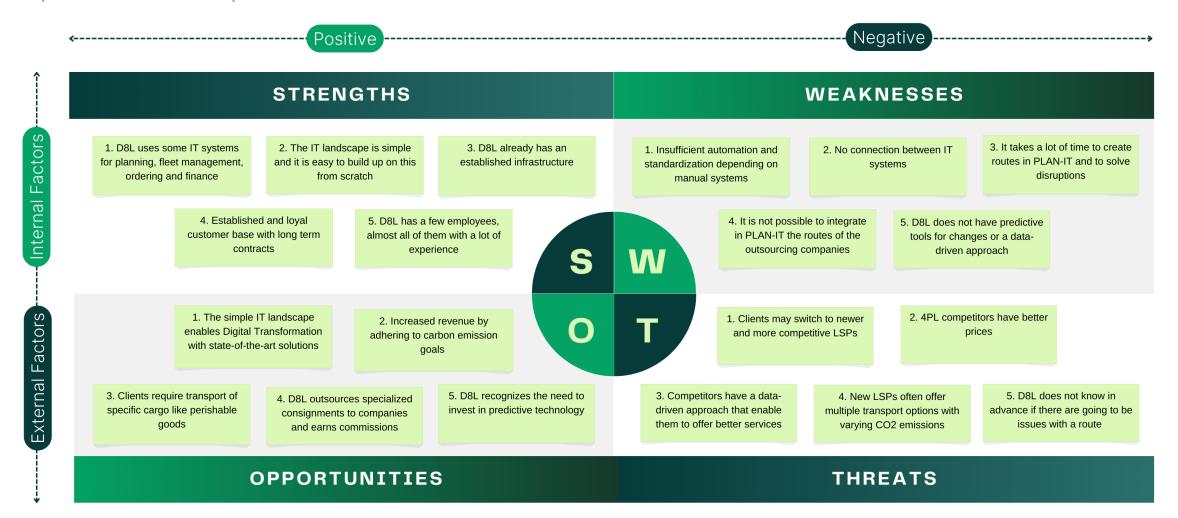
Company Introduction

D8L



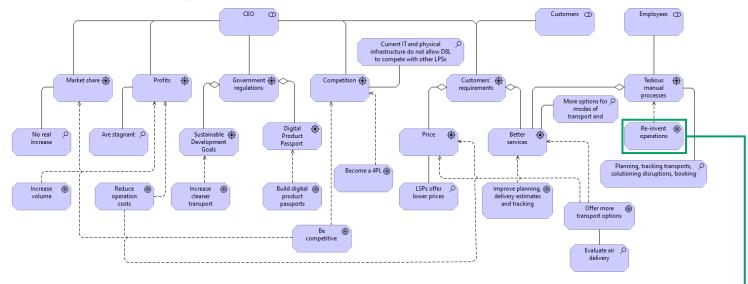
SWOT Analysis

Top 5 most relevant points



Motivation Viewpoint

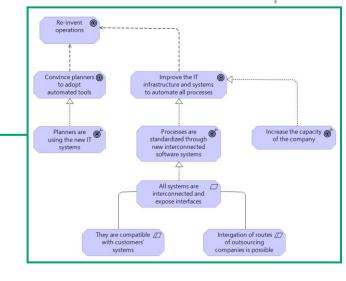
Stakeholder Viewpoint



The goals of the organization can be achieved by implementing two systems:

- Transport Management System (TMS)
- Environmental Management System (EMS)

Section of the Goal Realization Viewpoint



Organizational Viewpoint As-Is

6 Main Departments

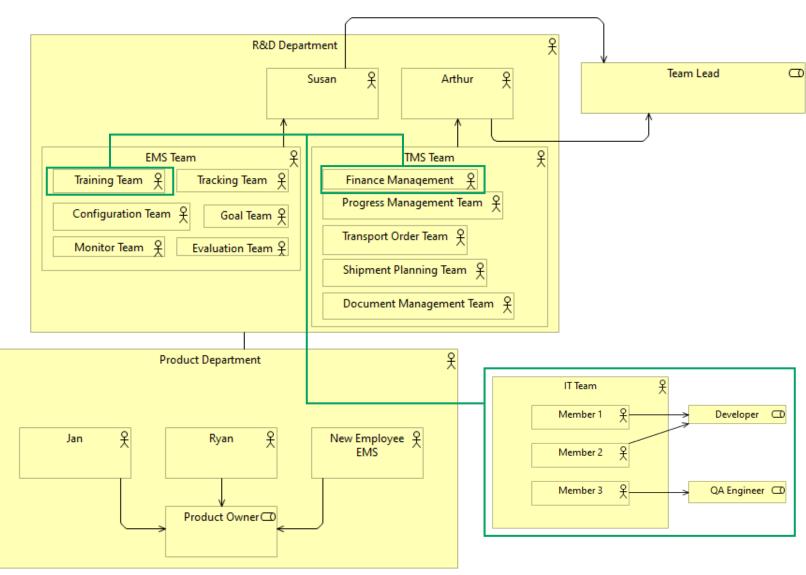
Strategic Decisions Board Active Mentor 🗆 Finance CEO Front-Desk Strategic Decisions Board Planning Mentor-CEO (1) HR Head 🔘 Dennis 1 - Chief 2 - Chief Planner Planner Drivers Truck Driver IT Department Finance Department Planning Department Susan Arthur Planner Finance Head Elizabeth Ryan Assistent Temporary/Permanent

O Contract Secretary Yolanda IT Team Manager Front Desk Sandra Front Desk 🗆 IT Manager Manager Cristina

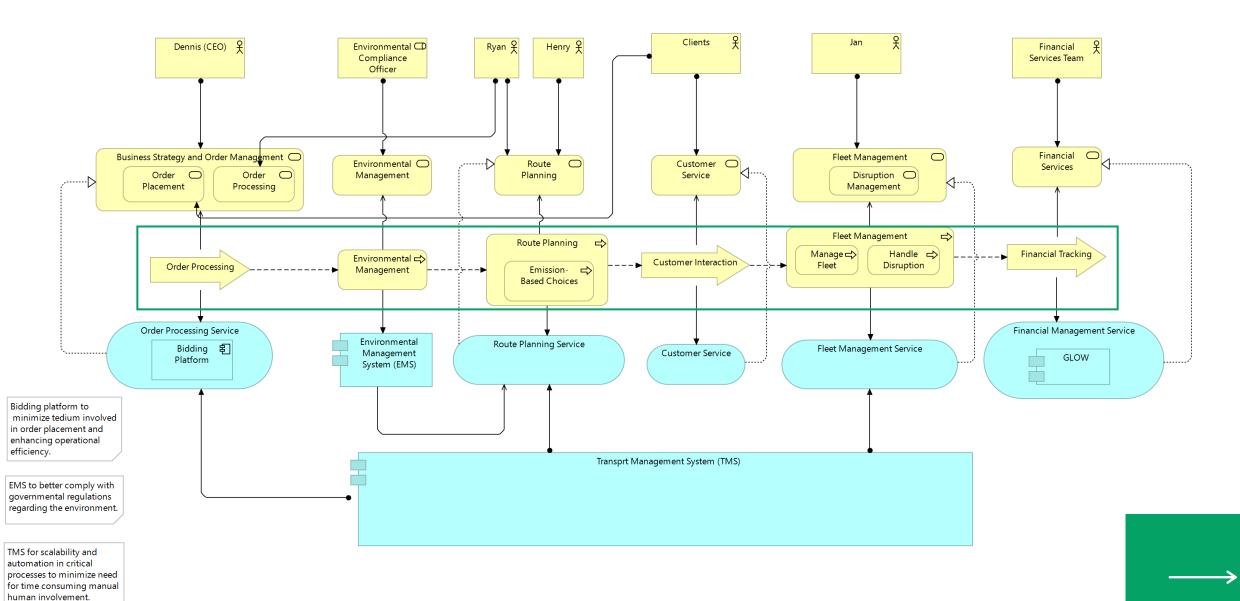
Organizational Viewpoint To-Be

Changes

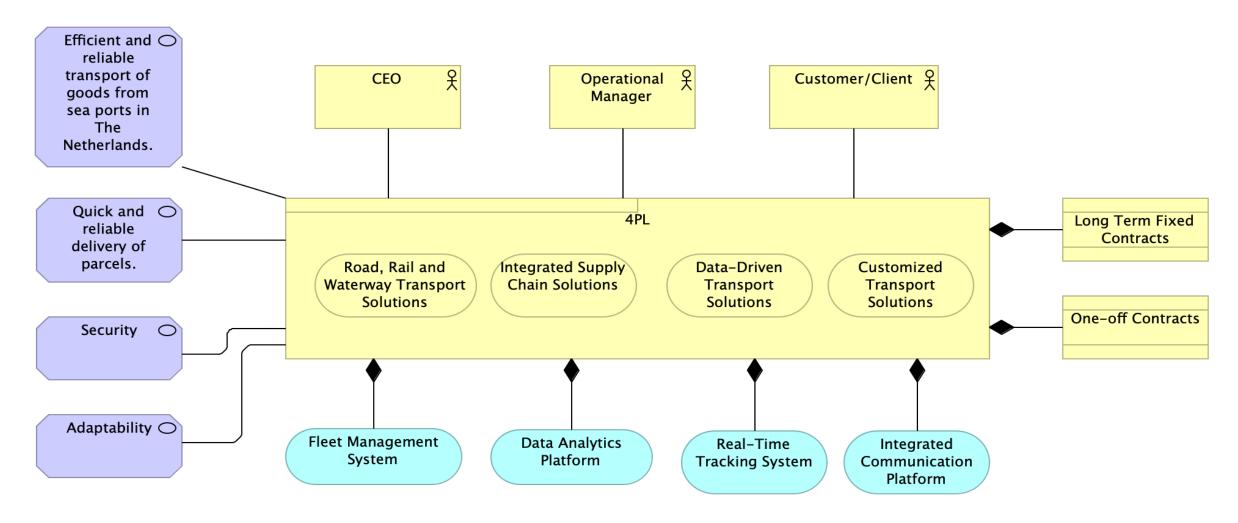
- R&D and Product Departments
- Each Microservice = One Team
- Jan and Ryan = Product Owners
- IT Team
 - o 2 Devs
 - o 1 QA
- Susan and Arthur = Team Leads



Service realization Viewpoint



Product Viewpoint





We used microservices to design the EMS app. Each big functionality represents one microservice.

Training Application

 Raises employees' awareness about environmentally friendly transport.

Evaluation Application

 Gains the transport configurations and make some reports based on them

Goal Application

 Helps the strategic board to set a goal for a certain period.

Monitor Application

 Monitor energy conservation, employees' awareness, and operational costs, comparing everything with the set goal

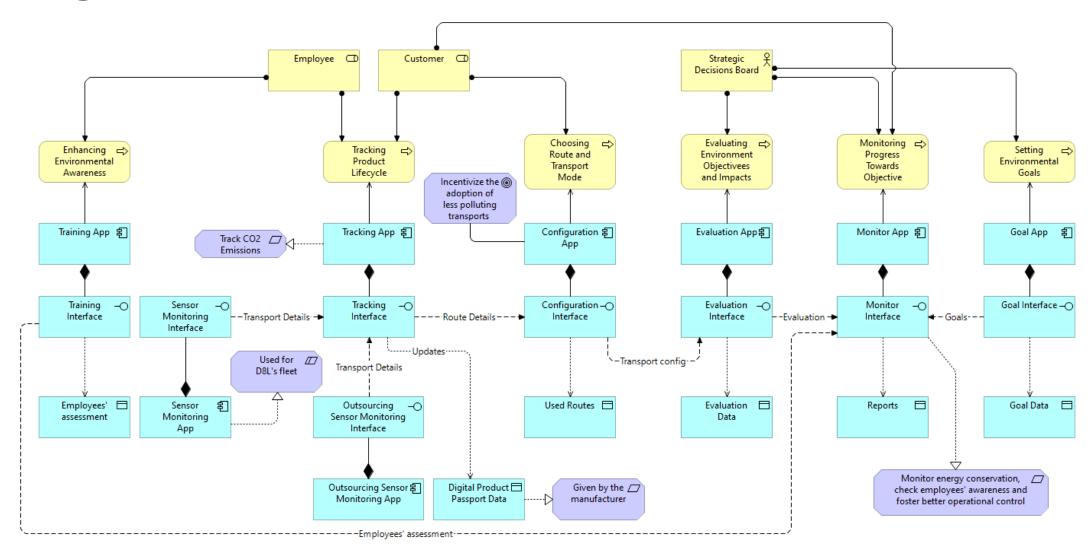
Configuration Application

 Customers can choose the route and the transport mode they want, making the adoption of less polluting transports easier

Tracking Application

 Tracks CO2 emissions using sensors from D8L's fleet or outsourcing monitoring interface

EMS



Transport Management System

We used microservices to design the TMS app. Each big functionality represents one microservice.

Transport Order Application

Manages the creation and tracking of transport orders

Shipment Planning Application

 Optimizes shipment routes and schedules using advanced analytics for efficient, real-time logistics management

DMS Application

 Centralizes logistics document management, ensuring easy access, retrieval, and regulatory compliance

Progress Application

 Tracks the progress of logistical operations against set objectives, focusing on costeffectiveness and operational timelines

Finance Application

 Supports financial operations and customer invoicing

IDS Application

Secures data exchanges in the logistics network, ensuring compliance and enhancing intercompany communication reliability

