



How does a Physics background help you become a data professional?

Taavi Pungas

Head of Data, Starship Technologies

Physics student



Data analyst

Segment manager

Head of Energy Products
& Portfolio



Senior Data Scientist

Head of Data

STARSHIP



UNIVERSITY OF
CAMBRIDGE



TARTU ÜLIKOOOL



Eesti Energia



1000+

**ROBOTS
IN SERVICE**

7M+

**KM
TRAVELLED**

3 MILLION+

**COMMERCIAL
DELIVERIES**

100K+

**STREET
CROSSINGS
EVERY DAY**



100

engineers

150

business users

12

data team
members

Starship people

Quantitative problem solving

“Type A” skills

Data analysis (extracting insights from data;
could be descriptive, predictive, prescriptive)

Critical thinking

Experiment design

Statistics



STARSHIP



The Customer

Data wrangling / engineering

“Type B” skills

Data engineering (moving and storing data)

Analytics engineering (defining data models
and building transformation pipelines)

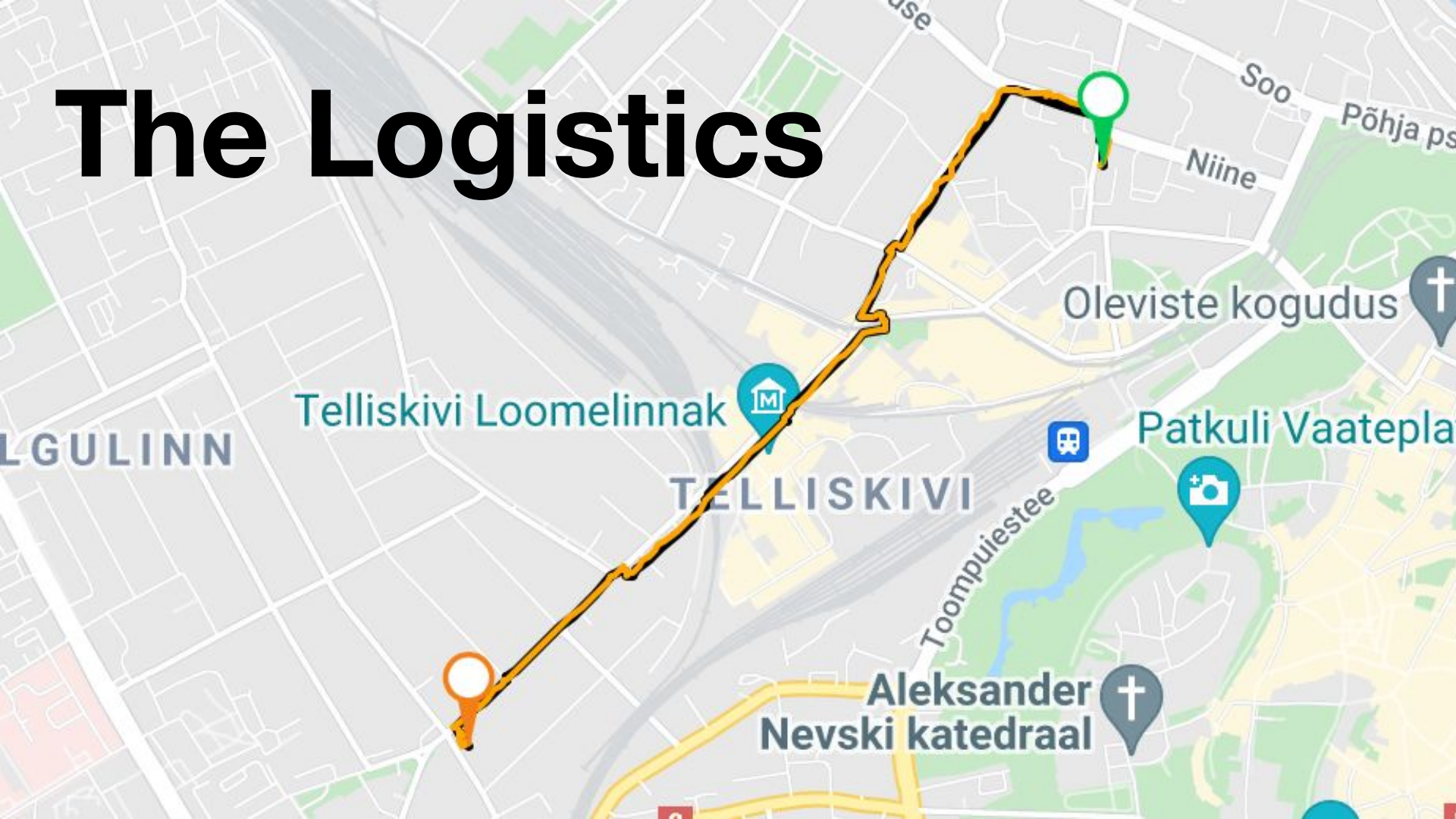
Business intelligence (building data products
that provide visibility for business users)

Predictive modeling (creating statistical and/or
machine learning models to predict things)

Software engineering



The Logistics



“Soft” skills

Communication & collaboration

Impact & prioritisation

Autonomy & initiative

Learning & growth





The Operations

Domain expertise

App analytics

Computer vision

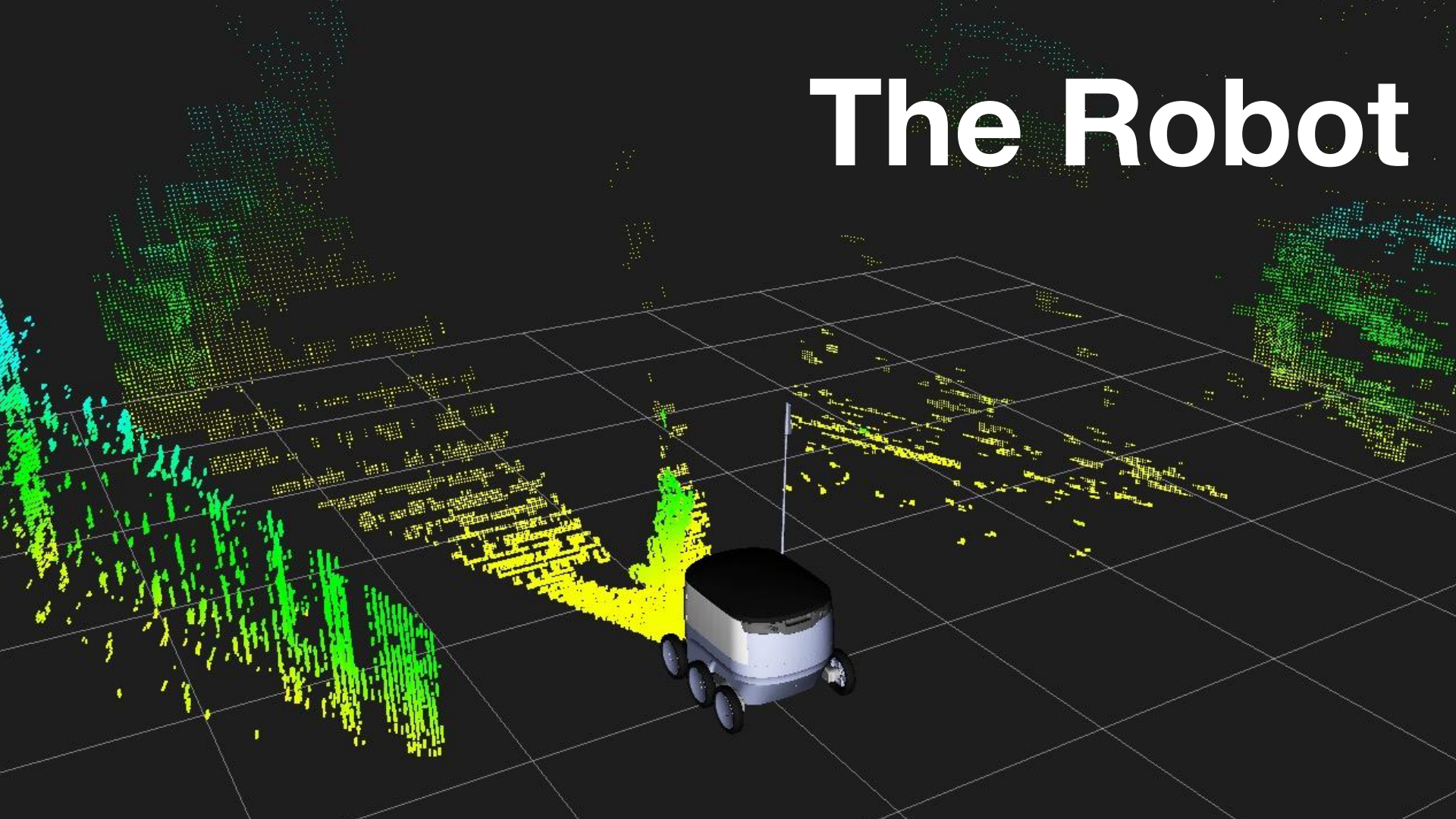
Financial data

Recommender systems

...



The Robot



Data Analyst, Data Scientist, ML Engineer, ...

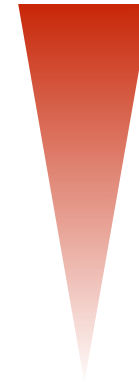
Quantitative problem solving (Type A skills)

“Soft” skills

Data wrangling / engineering (Type B skills)

Domain expertise

On-the-job training difficulty



Hardest

Easiest

**Physics background gives you the hardest-to-teach component “for free”.
And you can choose your own mix.**

A person is riding a bicycle through a large, multi-tiered fountain in a park-like setting. The fountain has several jets of water spraying outwards. In the foreground, a small white and black autonomous vehicle is moving towards the camera. To the right, a person with a backpack is walking away. On the left, several people are sitting on stone steps, and a bicycle is parked. The scene is surrounded by lush green trees and a paved walkway.

Thank you!

taavi.pungas@starship.co