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Open Data for Smart Mobility

Panel 4	Connected by Data: New Modes of Transport competing for the City
Talk	Provide and Visualize Prediction AI-based Public Transport Usage Data
Speaker	Marc Lammerding, Brodtmann Consulting, mFund Project “NV-ProVi”

Brodtmann CONSULTING

Stadtwerke Gießen SWG

mFUND Das Startkapital für die Mobilität 4.0

Bundesministerium für Verkehr und digitale Infrastruktur

“With public transport data, traditional statistics will not get you where you want to be.”

mFund Project

NV-ProVi

Project Partners

Brodtmann Consulting
Stadtwerke Gießen
RMV (associated)

Timeline

March 2020
September 2022

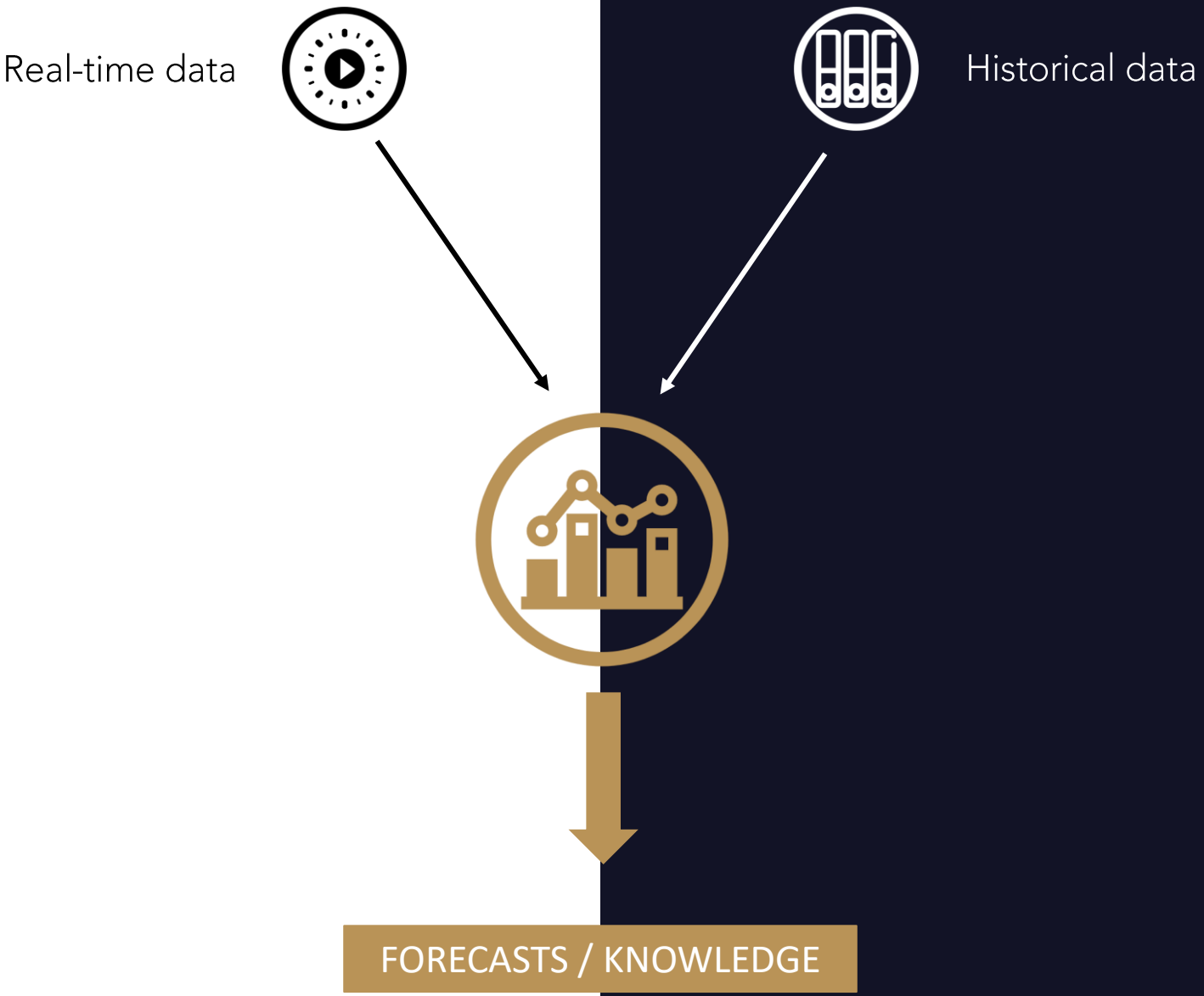
The process so far

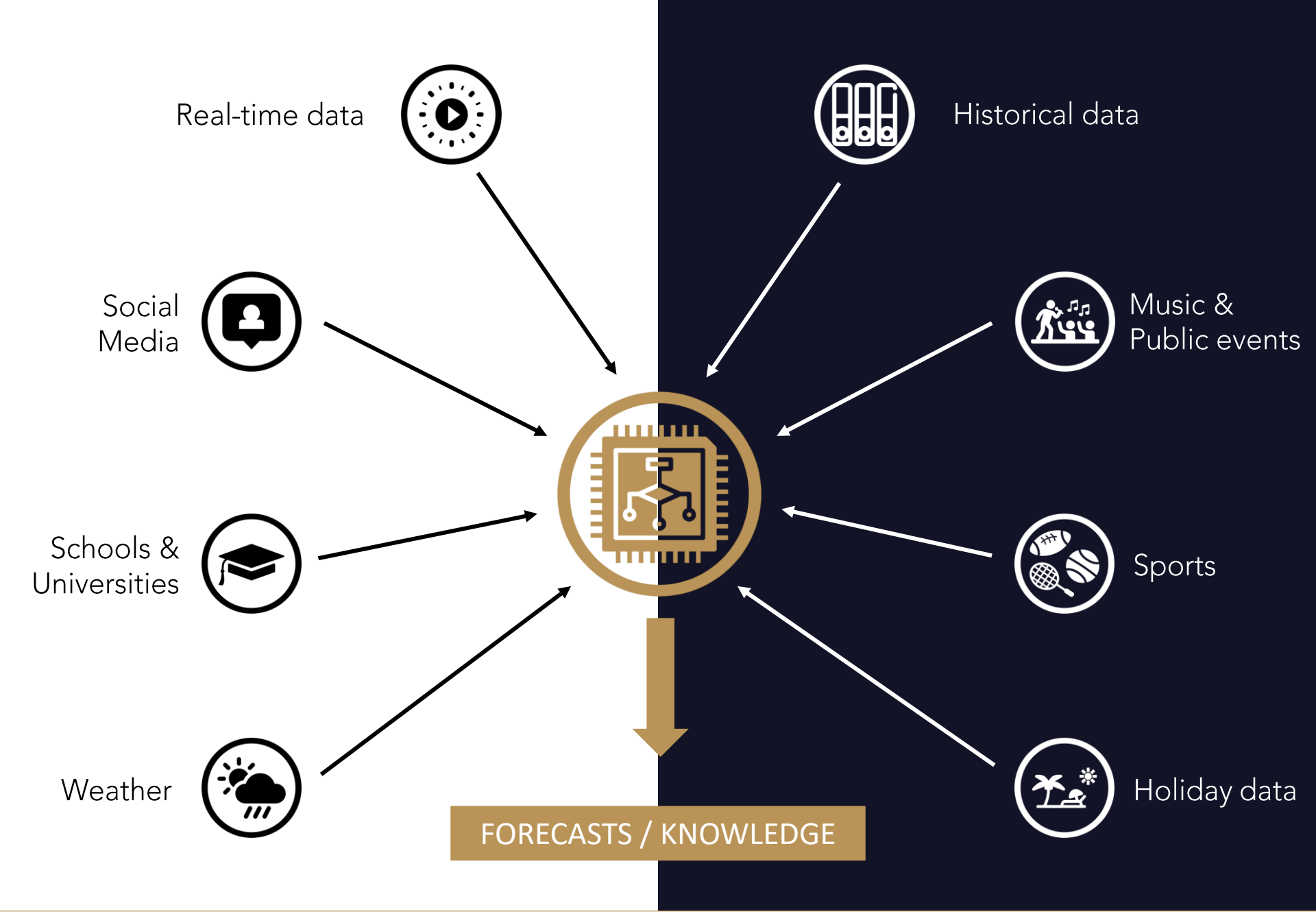
- First static data in 2019
- APIs to receive data & automated routines to process data
- Statistical analysis
- Filters to manipulate underlying data and visualizations that highlight connections
- Significantly improvements
  - punctuality
  - fit to demand
  - financial impact
  - …

mFund Project NV-ProVi

Project goals

- Set up real-time data stream
- Develop precise forecasting algorithms for occupancy and delays
- Provide real-time forecasting / simulation functionality
- Visualize results for public transport clients


Real-time data
Historical data
FORECASTS / KNOWLEDGE


Real-time data
Historical data
Social Media
Music & Public events
Schools & Universities
Sports
Weather
Holiday data
FORECASTS / KNOWLEDGE

Infrastructure / Technology

AWS / Microservices

Data Ingress

Forecasting Methodology

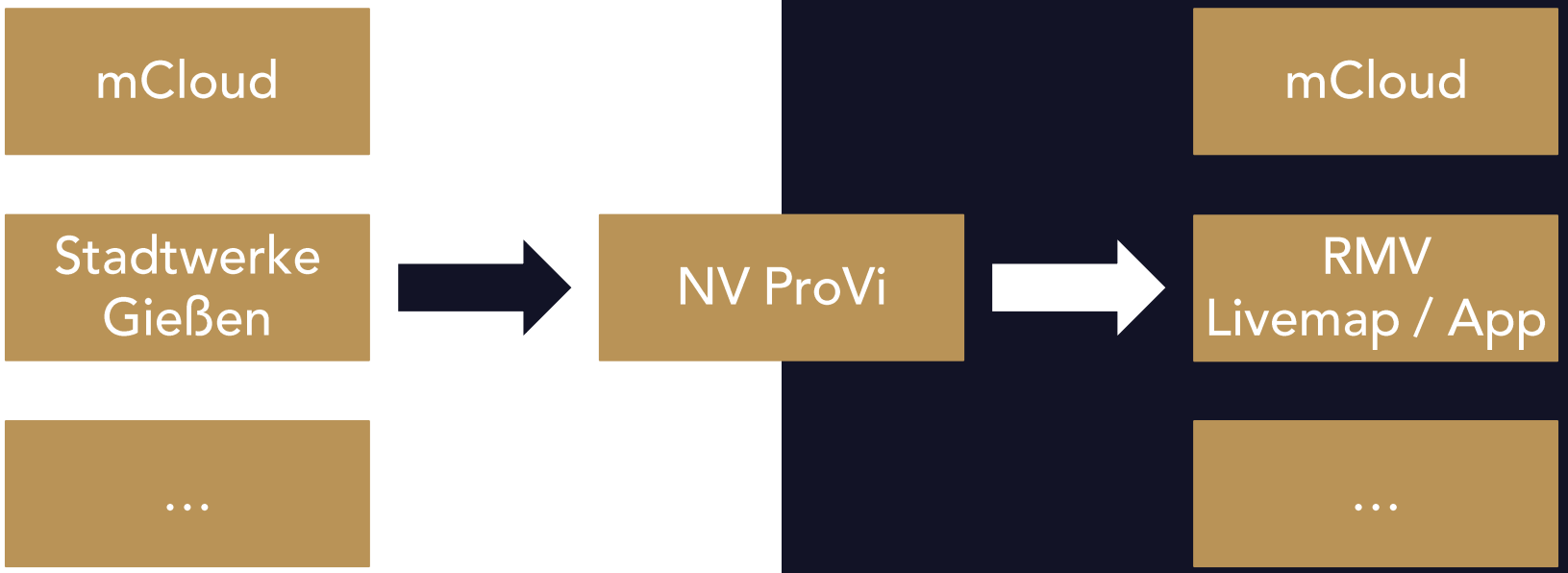
Test different strategies

Standardized formats / APIs

Data Egress

Visualization

RMV mobile app / Live Map



- EU-managed, centralized open data platform for real-time data that projects like ours can access and share data on?

- How can we make sure that the huge amounts of data that is being generated can be stored efficiently and is relevant?

Thank you for your time!

Contact
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