

## StratePlan Use Case – Deutsche Bahn (DB)

### Strategic investment optimization in the high-speed and infrastructure network



## Initial question:

How can Deutsche Bahn, as the operator of the nationwide rail network, prioritize the most profitable sections for high-speed lines (HSR) while simultaneously considering future-proof communication infrastructure for autonomous freight transport?

## Challenge:

- Numerous HSR routes in Germany and Europe, some with very different costs, demand potential, and political frameworks.
- Limited budget resources, but high requirements for profitability, capacity utilization, and sustainability.
- Simultaneous investments in communications infrastructure are necessary – especially along corridors for autonomous freight transport.
- Conflicting objectives between national infrastructure strategies, EU funding logic, climate targets, and technical feasibility.

## StratePlan solution:

- ✓ Data-based multi-criteria scenario with billions of variants per second:
- Inclusion of all HSR routes (in Germany and neighboring countries)
- Traffic forecasts, expansion costs, topography, disruptions, planning horizons
- Political priorities (e.g., TEN-T corridors, cross-border projects)
- ROI assessments based on economic, social, and environmental criteria
- Parallel optimization of the communications infrastructure along appropriate sections

# The future of corporate and government finance strategy

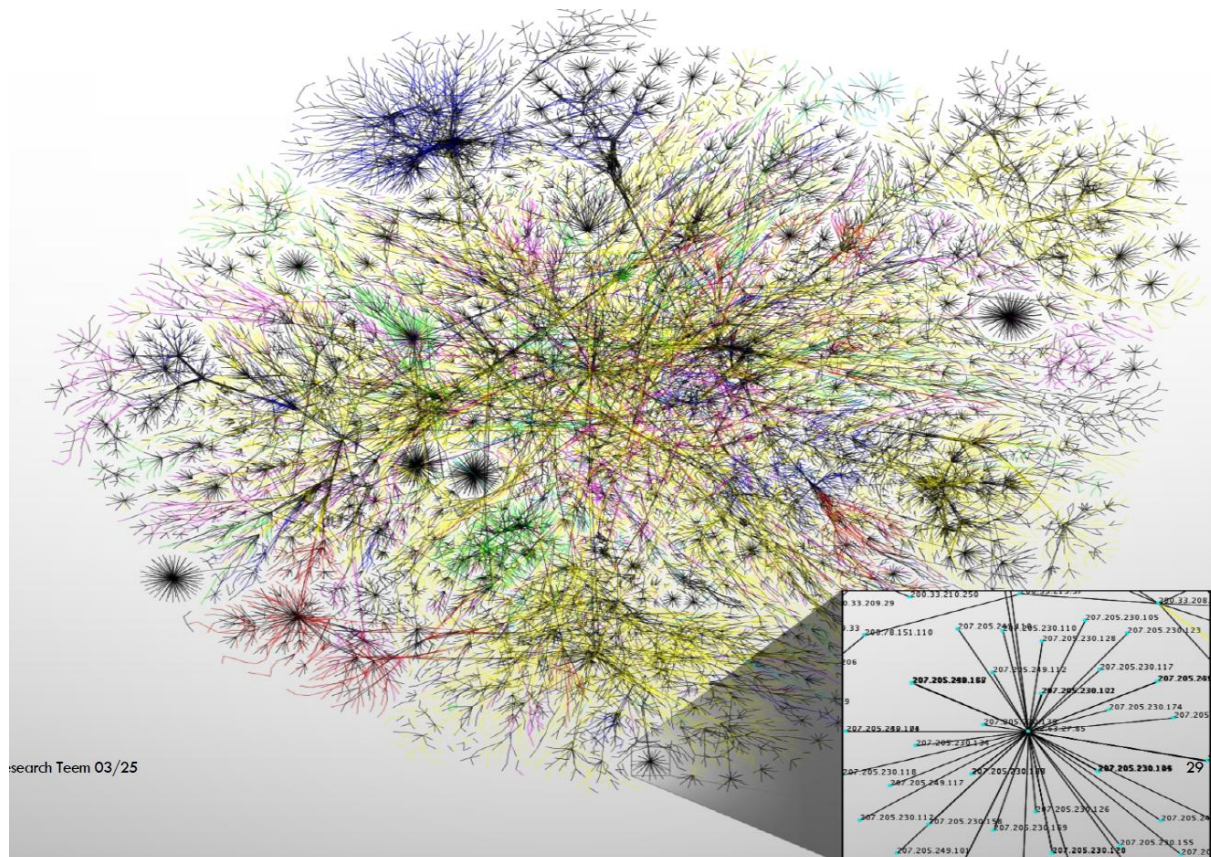


## ✓ Result:

- StratePlan identifies a strategically optimal combination of route sections in which investments should be made first – including efficiency assessment, risk analysis, and implementation sequence.
- At the same time, the system provides an assessment of which routes are technically and economically viable for communications expansion (e.g., for autonomous trains or freight networks).

## ✓ Effect:

- 20–60% higher impact from the same budget
- Increased political and public return on investment
- Avoidance of inefficient individual investments through intelligent resource pooling
- Faster implementation by reducing planning errors and adjustments



# The future of corporate and government finance strategy



## StratePlan is available as:

- Cloud or on-premise solution
- SAP-compatible API
- Security-compliant for government agencies, infrastructure operators, and corporations

## Use the full potential of your infrastructure investments!

With StratePlan, you can identify the most profitable HSR routes, prioritize investments with maximum ROI – and link the expansion of high-speed and communications infrastructure intelligently and based on data.

👉 Let's evaluate together how StratePlan can take your investment strategy to the next level.

Contact us for a live demo or a pilot project in your area:

✉️ [rissel@mainthink.ai](mailto:rissel@mainthink.ai)

🌐 <https://www.mainthink.ai>