

---

**DEVELOPMENT AND FUTURE OF LONG-DISTANCE-RAIL-PASSENGER-SERVICES ALONG AUSTRIAN SECONDARY ROUTES:**

**Challenges along the axis Graz-Linz/Salzburg/Innsbruck and possible coping strategies**

---

Samuel Niemand, MA

SciNet Research Forum, Vienna 2016-06-17

# Agenda

---

1. Problem statement & purpose of thesis
2. Research question
3. Research design
4. Major findings
5. Limitations

# 1. Problem statement & purpose of thesis

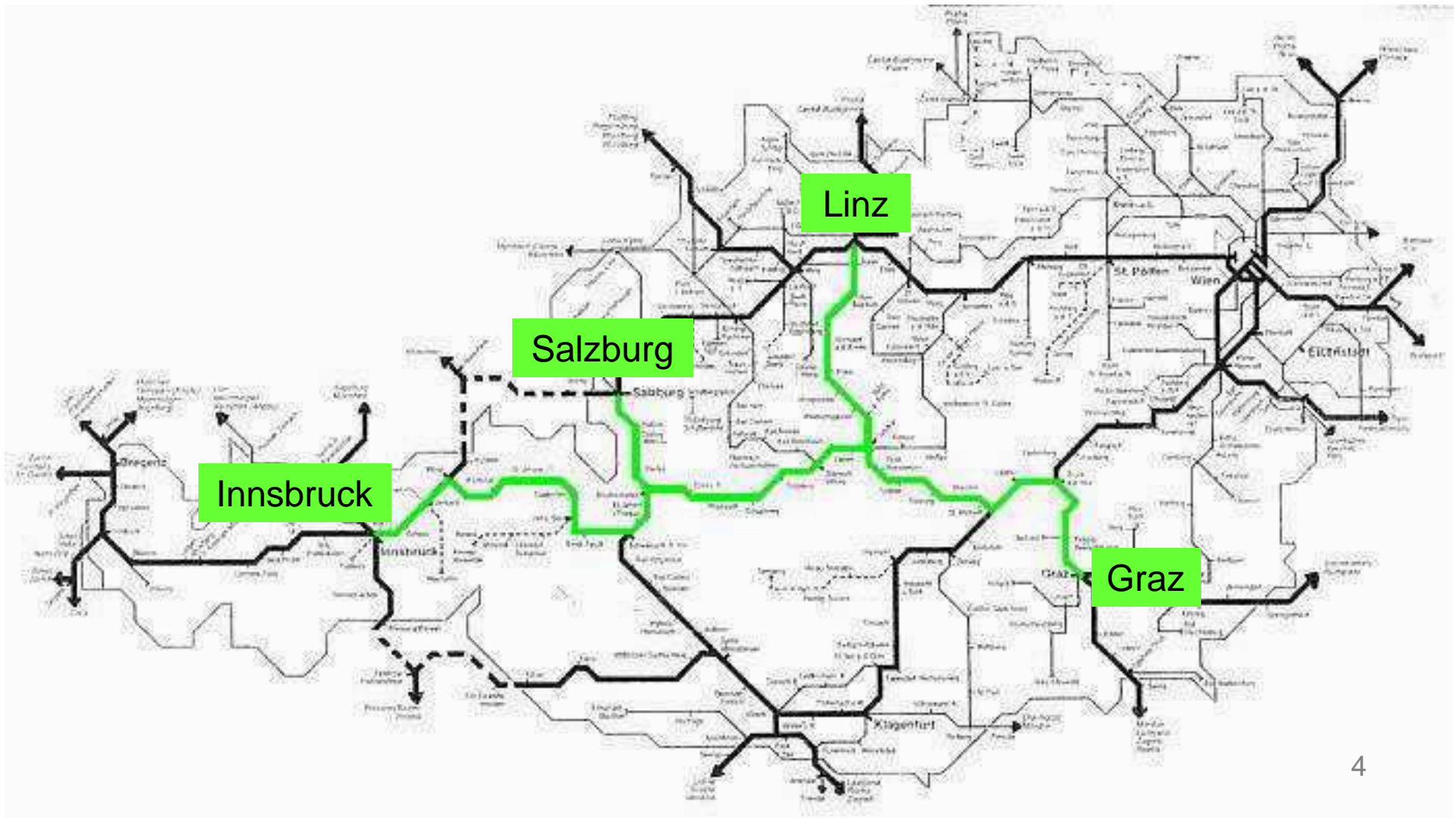
---

Most long distance trains in Austria not profitable!

...but important for

- Railway network, connectivity
- Regional development/accessibility

# 1. Problem statement & purpose of thesis



# 1. Problem statement & purpose of thesis

---

Most long distance trains in Austria not profitable!

...but important for

- Railway network, connectivity
- Regional development/accessibility

...however:

- Service quality reduced in the past  
(how could you measure that? reasons?)
- Which future challenges?
- How cope with challenges?

# 1. Problem statement & purpose of thesis

---

- (find a method to) Measure and display *development of service quality*
- Discuss reasons for development and *future challenges*
- Develop *future service strategies* for railway operating companies and governments

## 2. Research Question

---

„Which development and future challenges are true for long distance rail passenger services along the so-called "Querverbindungen" and which service strategies should be applied by operating companies and governments to cope with these challenges?“

## 3. Research Design

---

Three parts:

quantitative – qualitative – quantitative

1. Development of service
2. Future Challenges
3. Future Strategies



# 3. Research Design

## 1. Development of service



- Quantitative data analysis (timetable-books)
- Elaboration of a method to measure/display development of service quality
- Application on respective route

# 3. Research Design

## 2. Future challenges

- Classification of challenges (analysis of literature and statistical data)
- Expert Surveys



# 3. Research Design

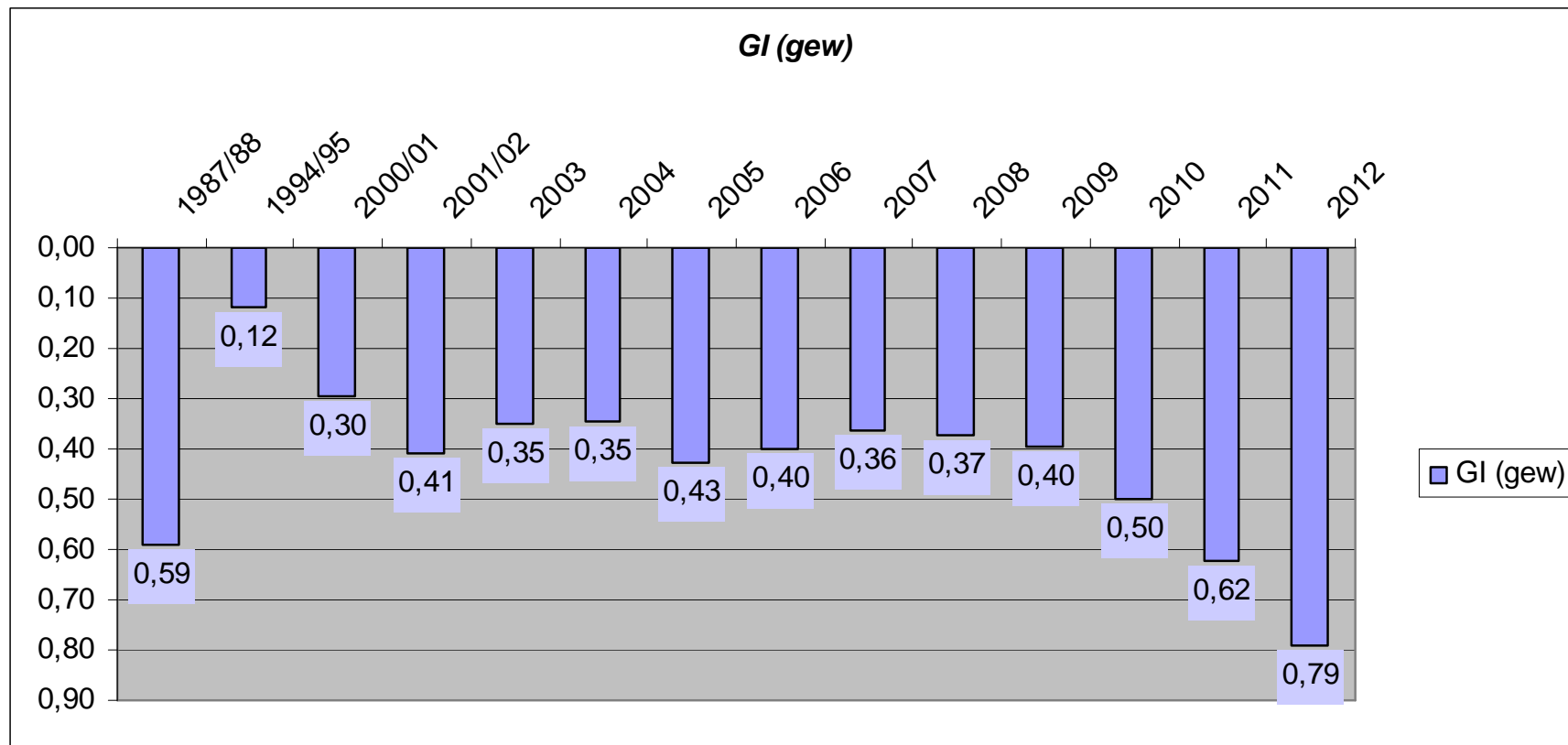
---

## 3. Future strategies

- Elaboration of different options for future service strategies
- Cost-benefit-investigation
  - Estimation of costs with experts
  - Determination of benefits with method from first part

# 4. Major Findings

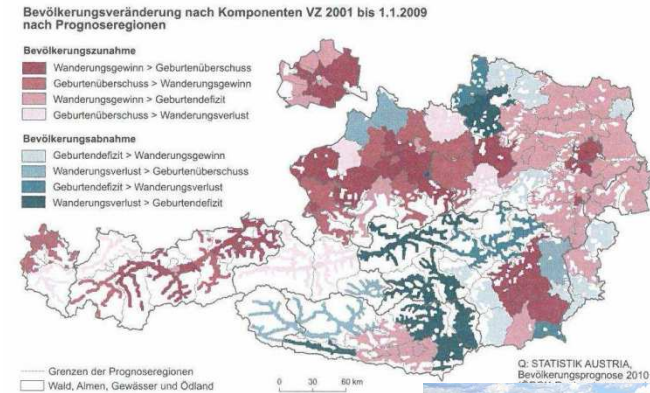
## 1. Development of service



# 4. Major Findings

## 2. Future challenges

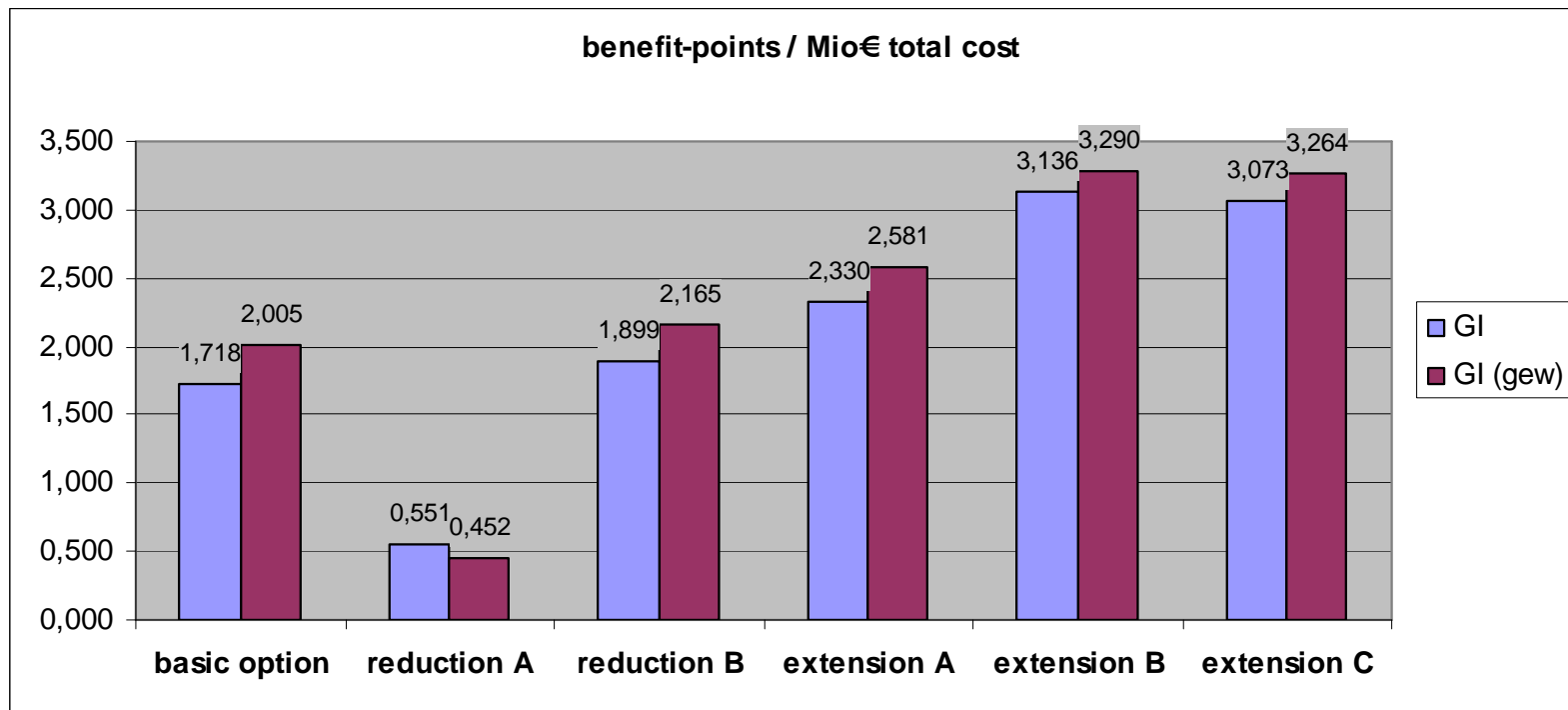
- Decline in population
- Alternative routes: Koralm-line
- Long distance busses



→ Service without public co-financing unrealistic

# 4. Major Findings

## 3. Future strategies



→ Conclusion: Extension instead of reduction!

## 5. Limitations

---

- Costs = estimates
- Measurement of service quality: every relevant parameter included?

Samuel Niemand, MA  
Förderungen und Verkehrsfinanzierungskontrolle

---

Schieneinfrastruktur-Dienstleistungsgesellschaft mbH

Lassallestraße 9b | 1020 Wien | Austria

FN 261480 f - Handelsgericht Wien

UID: ATU 61643056 - DVR: 2111586

T. +43 1 812 73 43 1186

F. +43 1 812 73 43 1300

[s.niemand@schig.com](mailto:s.niemand@schig.com) | [www.schig.com](http://www.schig.com)