

How can systems learn from each  
other?

The role of data and research

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# Disclosure

I have no potential conflict of interest to report.

# Questions?

- Are we learning?
- Is mental health care getting better?
- If so, why?
- If we have learnt, from what?
- Role of data and research?

# Examples

- Good evidence for the effectiveness of acute day hospitals
- No evidence for the effectiveness of community treatment orders
- Evidence for harm through debriefing
- Questionable evidence for the effectiveness of antidepressants in mild and moderate depression

# Further questions?

- What services have ever been established because of research evidence?
- What services have ever been abandoned because of research evidence?
- Which countries do we want to learn from?
- What can we learn from other countries?
- Do we understand the systems we want to learn from?

# Some hurdles

- Different health and social care systems
- Language
- English?  
“he came into psychiatry”
- Different cultures and traditions
- Learning from commonalities or from differences?

# Assertive Outreach effects

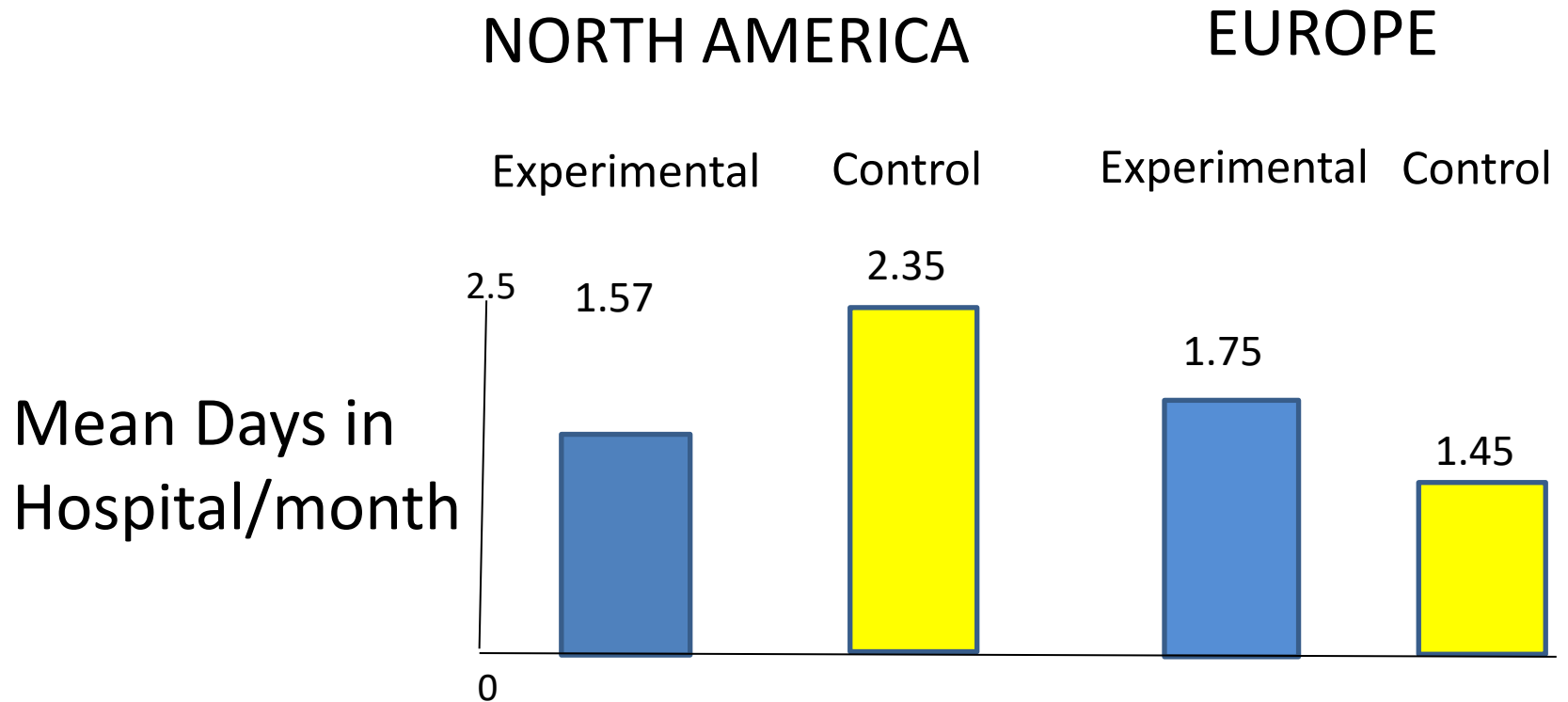
- Studies in North America positive
- Not replicated in Europe
- Debate on the reasons for the difference
- Model adherence?
- Different systems?

# Assertive Outreach effects

- Meta-analysis on factors influencing the findings
- Higher baseline bed use (greater reduction)
- Higher model fidelity (greater reduction)



# Assertive outreach: RCTs



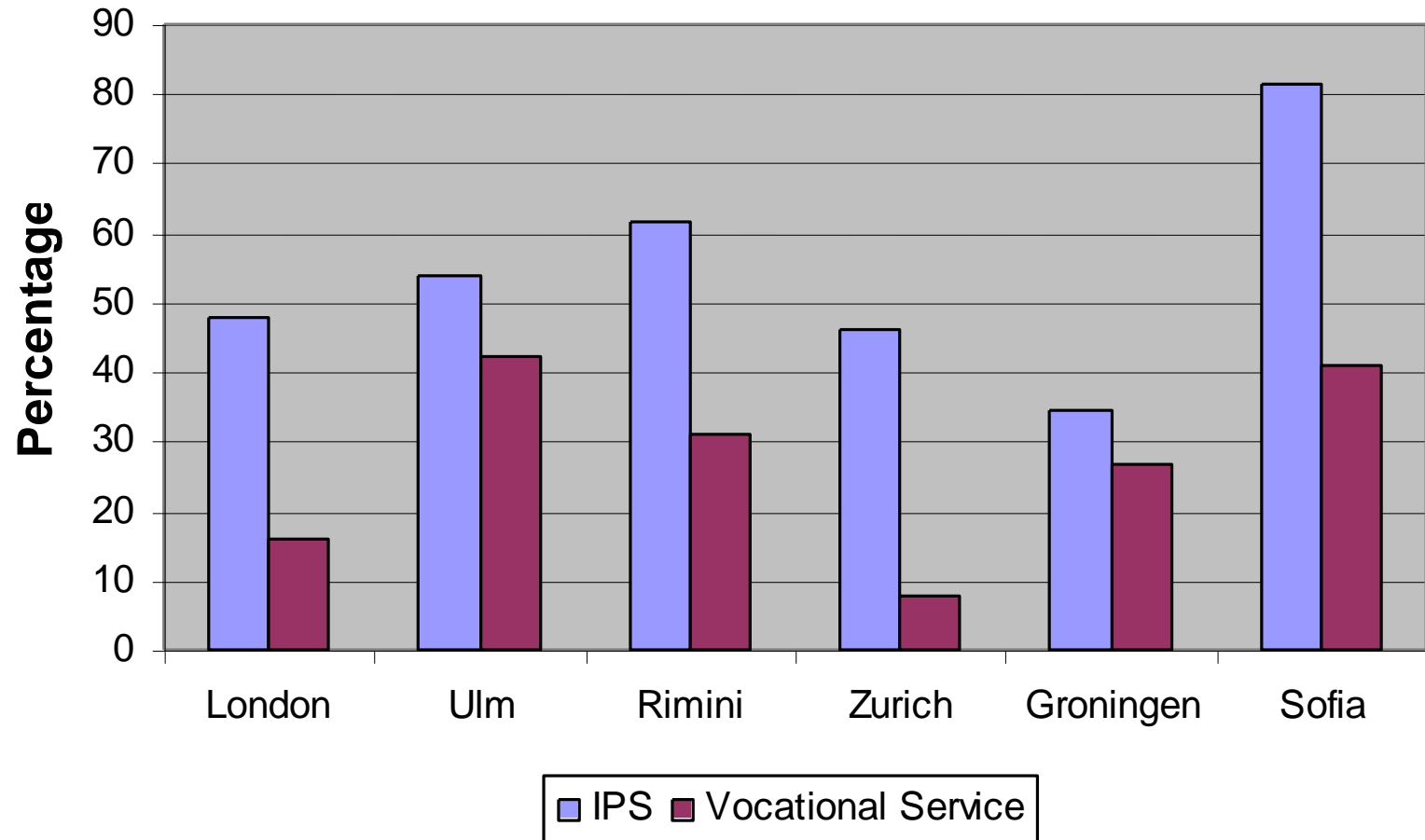
# Team characteristics and outcomes

- Pan London Assertive Outreach Study
- 24 teams and 580 patients
- Weekend working significantly associated with more voluntary and involuntary admissions

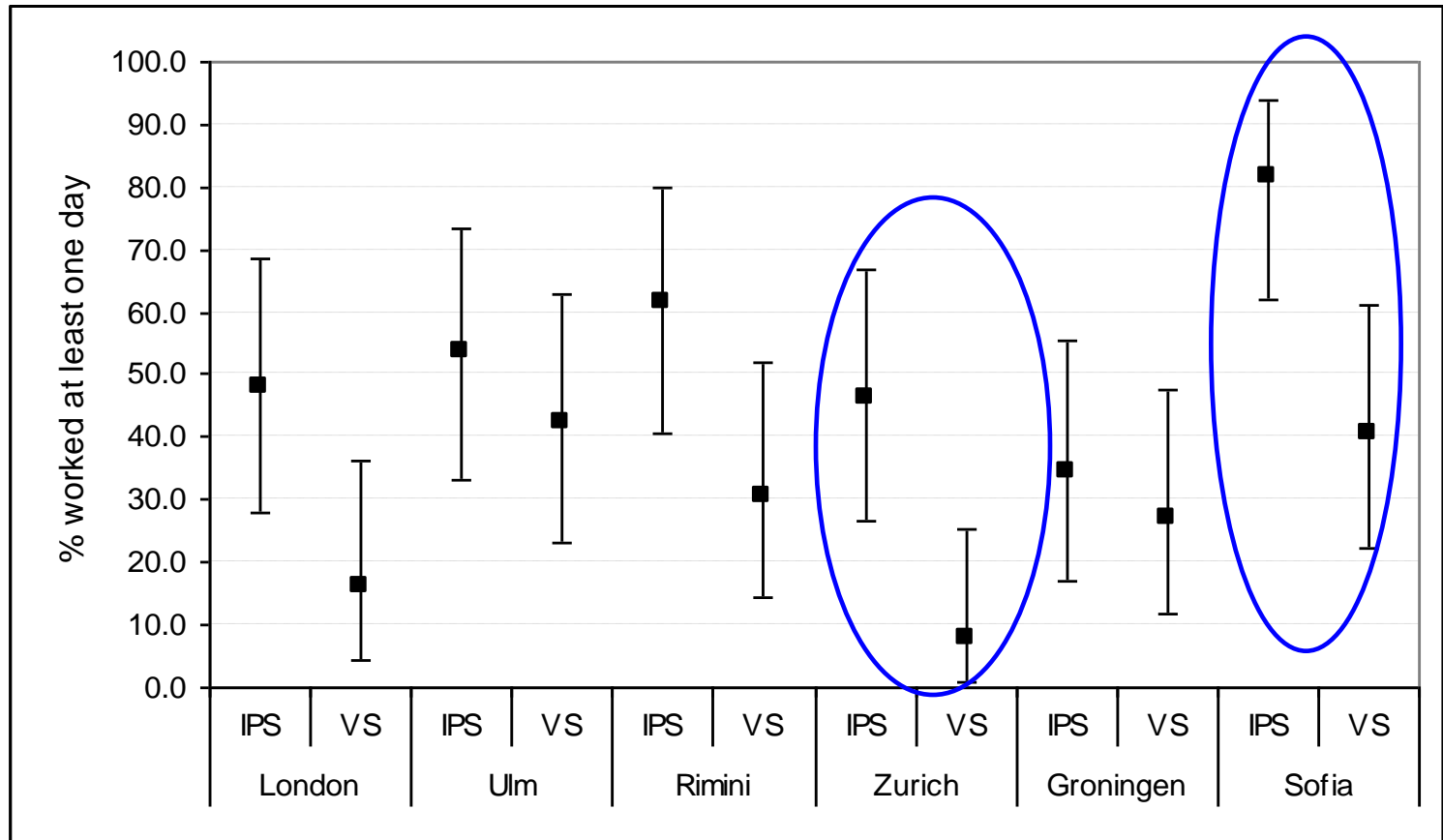
# Individual placement and support trial

- IPS vs vocational rehabilitation
- Trial in six European countries
- Primary outcome:  
working in regular employment for at least  
one day
- Overall: 54.5% vs 27.6%
- $P < 0.001$

# Worked for a day by centre



# IPS effectiveness within centres



# DIALOG trial

- Regular use of DIALOG vs treatment as usual
- Over a one year period
- Trial in six European countries
- >500 patients
- Primary outcome:  
subjective quality of life

# Overall findings

	Treatment as usual	Intervention group	p
Quality of life (MANSA)	4.74	4.86	0.047
Treatment satisfaction (CSQ)	25.8	26.7	0.007
Needs (CANSAS)	2.46	2.07	0.04

# Participating centres





# DIALOG trial

- Significant effects in only in Granada and London
- No interaction effect on primary outcome
- Interaction effects on secondary outcomes

# Conclusions from these studies?

- Significant effects in only some centres
- No interaction effects on primary outcomes
- Assumption of commonalities
- Learning with each other, but not from other countries

# The COFI study

- Assessing in-patients in five European countries:  
Belgium; Germany; Italy; Poland; United Kingdom
- Total sample of 7304 patients
- Outcomes:
  - treatment satisfaction; CAT 0 (low) to 10 (high)
  - length of stay; days

# Treatment satisfaction

- Fully adjusted means per country
  - Belgium: 7.8 (0.4)
  - Germany: 7.5 (0.4)
  - Italy: 7.6 (0.4)
  - Poland: 7.9 (0.4)
  - UK: 6.9 (0.5)
- UK significantly less satisfied compared to all other countries

# Predictors across all countries

- + Age
- + Living with others
- + Having a close friend
- + First admission to hospital
- Higher education
- More severe clinical symptoms
- Comorbid diagnosis of personality disorder
- Involuntary admission

# Length of stay

Total sample: 39.4 (sd=49.9)

Fully adjusted means per country

- Belgium: 56.4 (11.0)
- UK: 46.9 (13.9)
- Germany: 37.4 (10.5)
- Poland: 30.9 (11.8)
- Italy: 18.9 (10.4)

# Predictors across all countries

Social disadvantage

- + homeless

- + receiving benefits

- + no contacts with friends in the last week

Clinical severity

- + higher score on Clinical Global Impression Scale

- + psychotic disorder

- + substance use disorder

- + history of admissions

- + involuntary legal status

# Legal status

	Total sample	Belgium	Germany	Italy	Poland	UK
Involuntary	55.4 (15.9)	64.7 (9.4)	40.7 (9.2)	25.3 (9.5)	36.9 (9.6)	60.2 (12.0)
Voluntary	34.3 (15.1)	54.4 (11.0)	37.2 (9.9)	18.1 (9.9)	30.2 (11.1)	37.2 (11.9)



# Homelessness

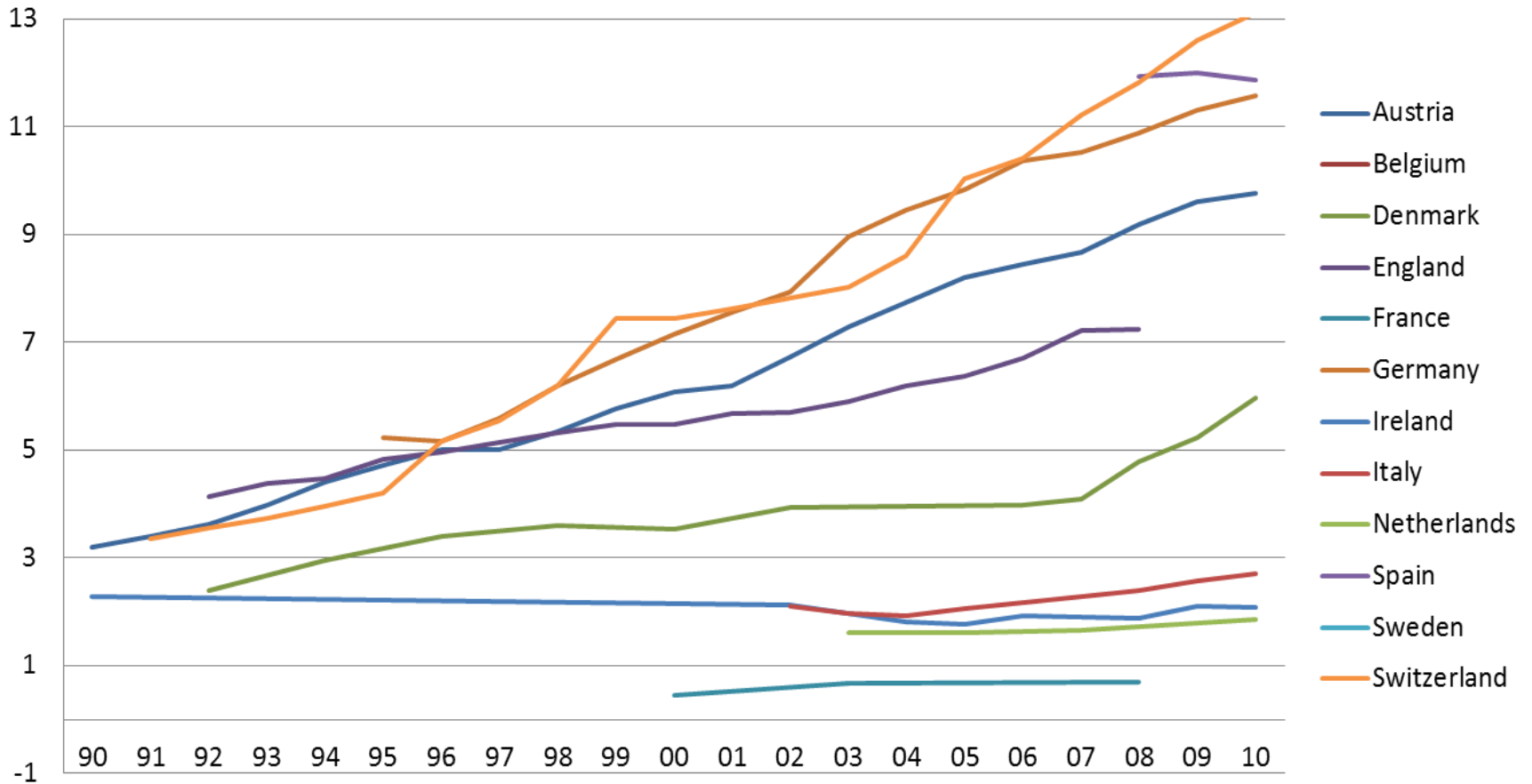
	Total sample	Belgium	Germany	Italy	Poland	UK
Homeless	54.2 (22.6)	92.7 (9.1)	31.8 (10.1)	23.6 (14.4)	30.8 (9.9)	54.9 (15.0)
Not homeless	38.1 (16.4)	54.4 (10.5)	37.5 (10.1)	18.9 (10.3)	30.8 (11.7)	46.2 (13.6)

# Conclusions

- Patient responses are relatively similar
- System responses vary highly

# Forensic Beds

Number per 100,000 population from 1990-2010

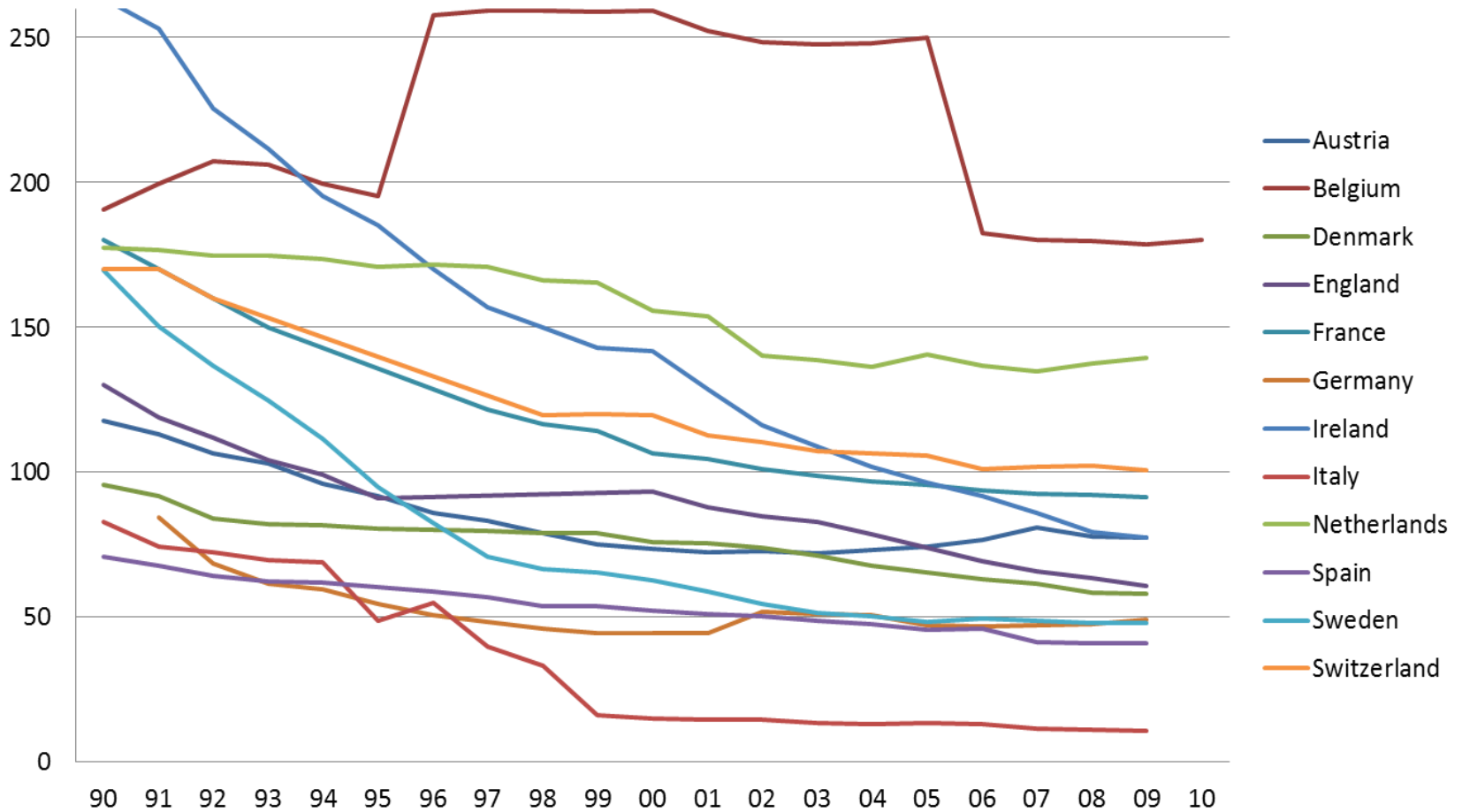


# Need for data from different countries

- Penrose hypothesis
- Are changes in bed numbers and prison population associated?
- Co-integration analyses in one country
- Analyses of changes in different countries

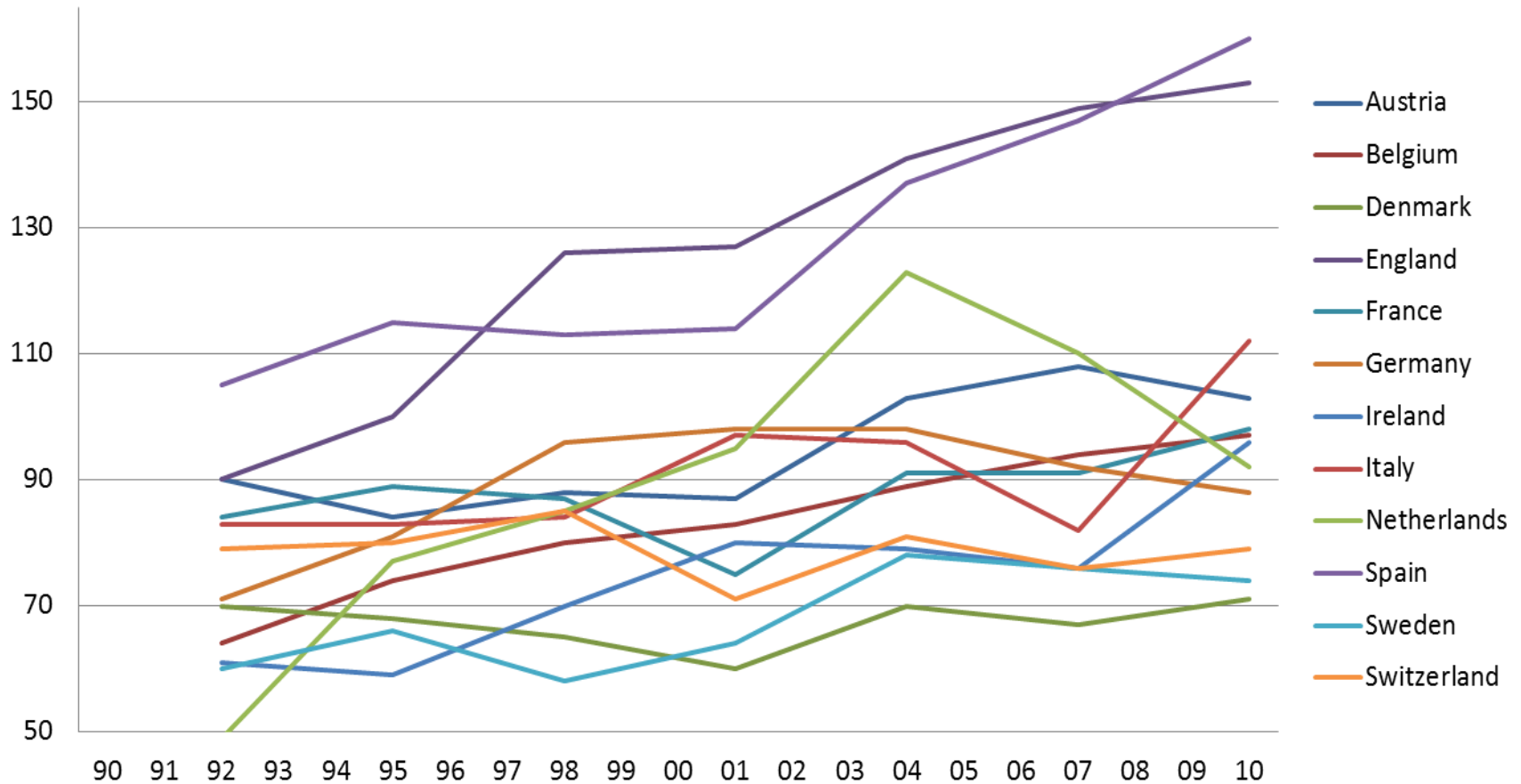
# Europe: Psychiatric Beds

Number per 100,000 population from 1990-2010

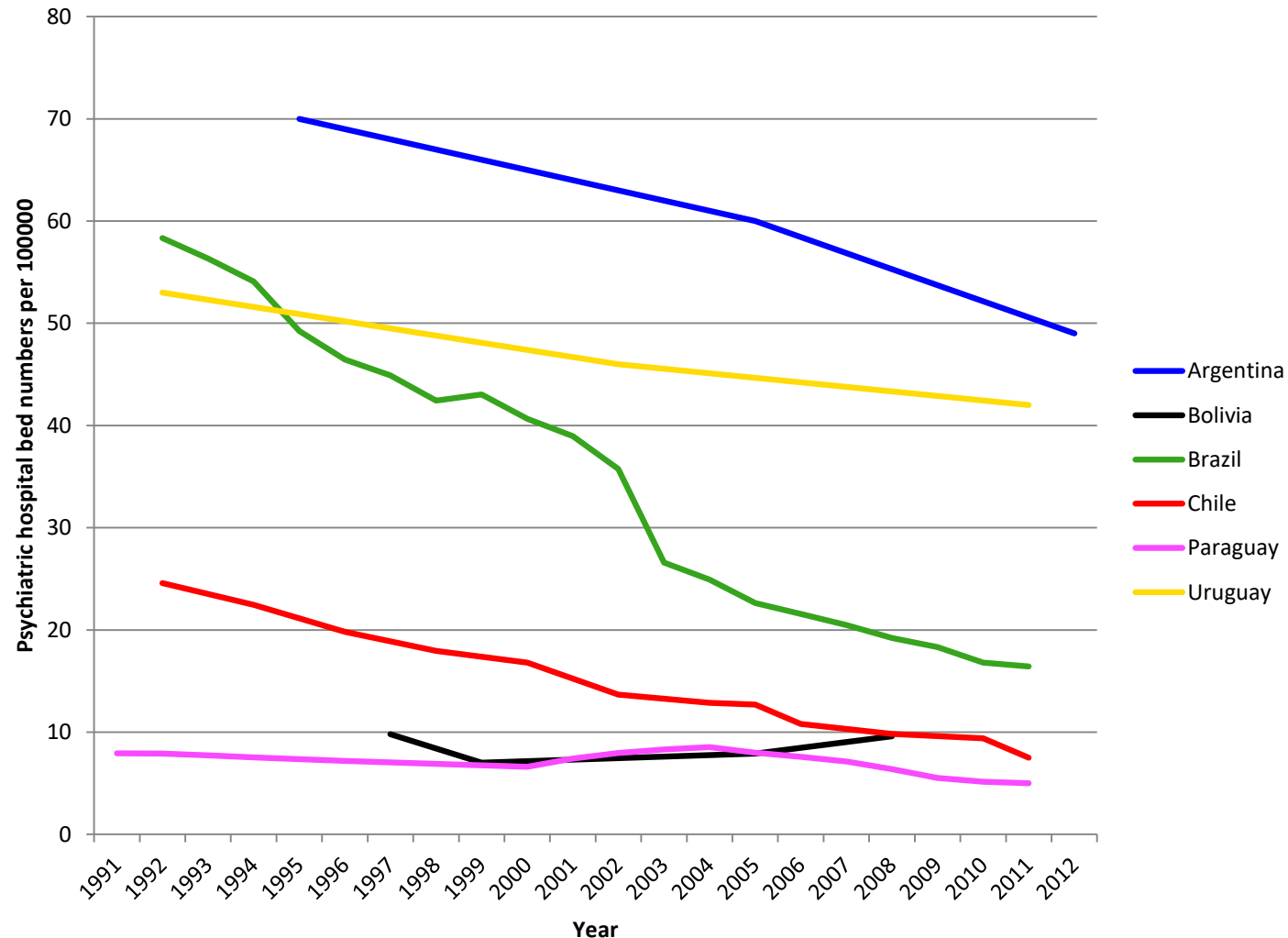


# Europe: Prison Population

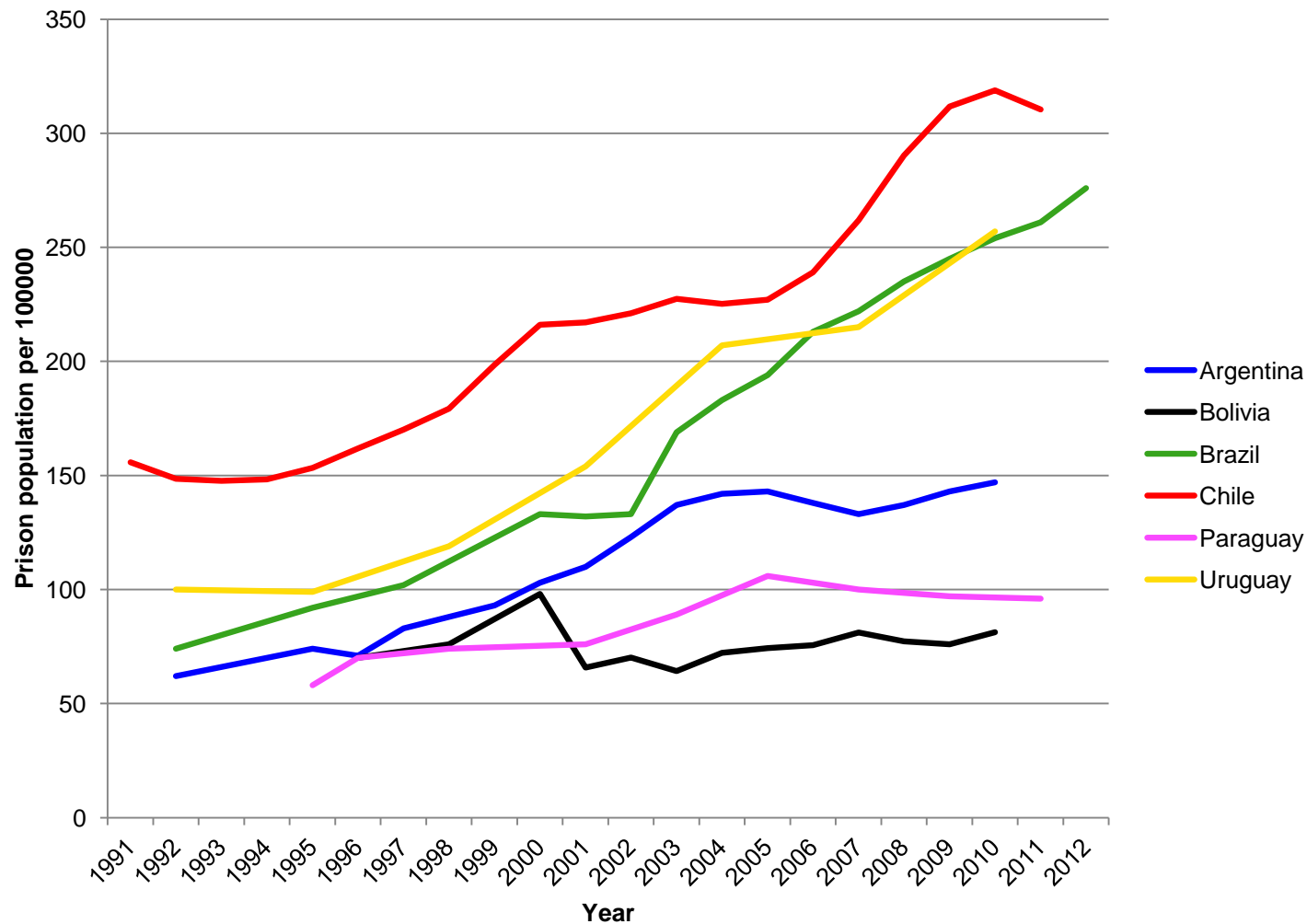
Number per 100,000 population from 1992-2010



# South America: Psychiatric Beds



# South America: Prison Population





# Findings

- Significant associations between reduction of bed numbers and increase of prison populations in Europe and South America
- When adjusting for macro-economic factors:
  - association in Europe is not significant anymore
  - association in South America remains significant

# How can we learn from each other?

- Understanding other systems
- Working in other countries
- Avoiding simple appraisals
- Widening options

# Role of data and research

- Limited
- Better concepts, better methodologies and better data required
- Quasi-experimental studies
- Quantitative and qualitative comparisons
- Global mental health
- Increasing importance