



THE EUROPEAN ORGANISATION OF
PRISONS AND CORRECTIONAL SERVICES



Correctional Service of
Norway Staff Academy

Forecasting Workshop

13-14 November 2014

KRUS Training Academy

Oslo, Norway

Participants: Statisticians / Experts in Forecasting working in the field of prisons in various European countries

Approximate 40 participants (including New Zealand and Canada)

Format: Plenary presentations combined with indepth discussions

3 topics – each discussed half a day

Presenters prepare a 1-2 page concept paper of their presentation that will be shared with participants ahead of the workshop to prepare their contributions in the discussion

November 12

Arrival participants

November 13

08:30-09:00 Registration

09:00-09:30 Welcome
Marianne Vollan, DG Prison and Probation Service Norway/Board member EuroPris
Hans-Jorgen Bruckner, Director KRUS

09:30-10:30 **Prison Forecasting and Capacity Planning (see *1)**
Plenary presentation and Q&A
Netherlands – Linking Forecasting to policy
Belgium – From long term forecasting to day to day capacity planning

10:30-11:00 Coffee break



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- 11:00-13:00 Discussion with presenter
Each participating country shares their experience in the field
- 13:00-14:00 Lunch
- 14:00-15:00 **Trend breaks (see *2)**
Plenary presentation and Q&A
Netherlands – Early warning / trend breaks
- 15:00-16:00 Discussion with presenter
Each participating country shares their experience in the field
- 16:00-16:30 Coffee break
- 16:30-17:30 Discussion with presenter
Each participating country shares their experience in the field
- 19.00 Joint dinner

November 14

- 09:00-10:00 **Big data and data crossed (see *3)**
Plenary presentation and Q&A
- 10:00-11:00 Discussion with presenter
Each participating country shares their experience in the field
- 11:00-11:30 Coffee break
- 11:30-12:30 Discussion with presenter
Each participating country shares their experience in the field
- 12.30-13.00 Final Discussion
Closing
- 13:00-14:00 Lunch



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Topics

***1 Prison Forecasting and Capacity planning**

- From long-term forecasting to day-to-day capacity planning;
- How to match the needs with real capacity;
- Short-long-medium term approaches: philosophy and methods;
- Understanding changes and if they are sustainable;
- Which elements influence development of capacity needs;
- Which data are needed for forecasting. From which actors in the criminal justice chain?
- The forecasts as a collaborative decision support tool shared by those different actors (criminal justice chain);
- Interest for a micro-scenario simulation's model (rather than to global scenario);
- Into a large panel of scenario and assumptions, how to "pick and choose" for the future?
- Which elements influence the functioning of forecasting models?
- At what point it is needed to change prison capacities?
- Time span between up and down in prison population and duration of these cycles;
- Integration of forecasting into performance management and strategic management;
- Linking capacity planning to budget planning;
- Predicting the length of a sentence;
- Does pre-trial detention need different methods of forecasting than normal detention?

***2 Trend breaks**

- Which statistical models can be used?
- How to deal with trend breaks?
- How to predict trend breaks? Are they predictable?
- What are the driving forces?
- Which factors determine the outcome?
- How can trend breaks be recognised? What are the early signals and when are they appearing?
- What can be done on the short term and on the long term?

***3 Big data and data crossed**

- Using big data for forecasting;
- Possibilities for using big data in the justice sector;
- Relevance of big data for the justice sector;
- Building large data warehouse with information from different data sources: crossing of data sources; efficient information management;
- Impact of socio-demographics factors on prison projections;
- How to resolve the constraints encountered with multiple sources data (privacy, data owner, ...).