
History of CJS modelling in UK

- Early attempts in 1980s
 - Flows and Costs model – 1993-2003
 - New CJS model – 2003 on
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Flows and Costs model

- Trilateral base – set up in 1993
 - Shared data from across 3 agencies
 - Data quality issues
 - Data compatibility issues
 - Increasingly seen as HO-dominated – loss of confidence in other departments
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Spending Reviews and the problems of multi-departmental angst

- New Labour Gov't instituted rolling programme of Spending Reviews
 - Each covers 3 years; they occur every 2
 - Intended to force review of current work – 'sunset' initiatives to introduce more effective ones
 - BUT...
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Spending Reviews and the problems of multi-departmental angst

- Bids for new ideas – little ‘sunsetting’
 - Set departments against each other in competition for scarce resources
 - Necessitates consideration of downstream consequences
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Process of model development

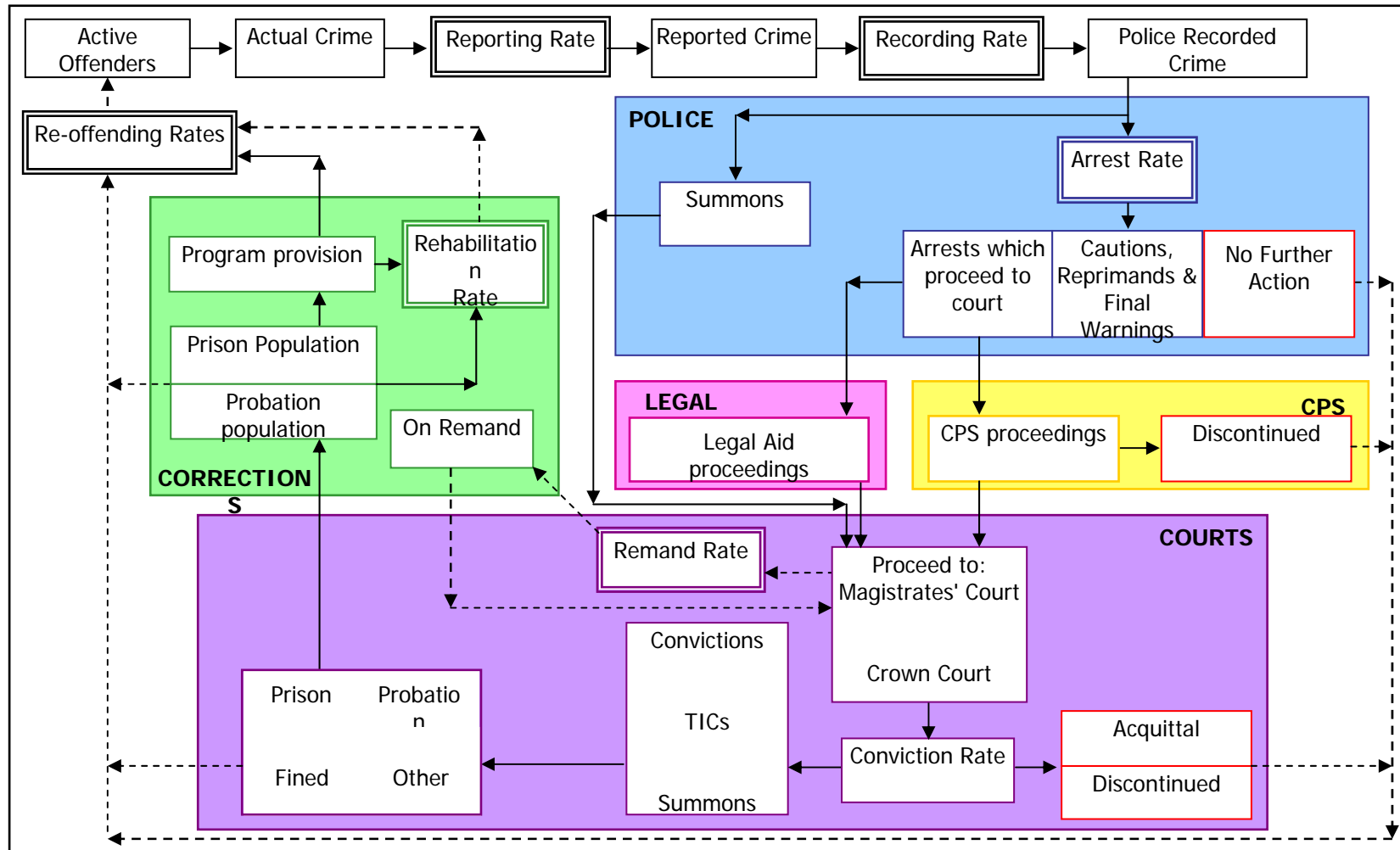
- Phase 0 – merge 2 existing models
 - Flows & Costs
 - Crime Levers model
 - Successful – but remained a static model, poor at feedback
 - Phase 1 – scope existing CJS models
 - 22 found – some localised, some moribund
 - Decision to build new one – system dynamics suggested
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Process of model development

- Phase 2 – the build
 - Actually an agent-based process
 - Probabilistic element based around known statistics

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The model



Version control and other protocols

- Need to maintain agency confidence
 - Dedicated central team, supervising updates in data and assumptions, and circulating new versions regularly
 - Multi-agency steering group overseeing operation of model
 - Training arranged for all agencies
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Use of the model

- Not just for Spending Reviews, but as a tool to assess new legislation and policy now and in the future – e.g.
 - Latest Criminal Justice Bill
 - Arising from review of sentencing practice
 - First time all provisions modelled on same basis
 - ANPR
 - Potential to increase conviction rate
 - What are effects on rest of system?
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Future developments

- Day of delivery is first day of development!
 - Identify shortfalls in data, and prioritise future data collection
 - Cost/resource data poor in several departments
 - Impact of stats review means new data should become available
 - New initiatives: police ABC
 - Some interest in developing models based on CJS areas
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