Idox Elections

Future of Electronic Voting – The First Principles

The University of Edinburgh

29 November 2017

@IdoxElections
Agenda

• Brief introduction to Idox
• Why eVoting is hard and some solutions
• Questions
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Where we operate

Our offices

United Kingdom
- Burton on Trent, UK
- Cambridge, UK
- Derry, N. Ireland
- Glasgow, UK
- Liverpool, UK
- London, UK
- Manchester, UK
- Theale, UK
- Woodcote, UK

Europe
- Berlin, Germany
- Brussels, Belgium
- Birkirkara, Malta
- Goor, Holland
- Limerick, Ireland
- Paris, France
- Rennes, France
- Skopje, Macedonia
- Utrecht, Holland

Rest of the World
- Houston, USA
- Pune, India

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Our sectors

750+ public sector customers in the UK
Supporting democracy, 360 degrees

From print to PVMS, from canvass tablets to call centre solutions, from electronic counting to electoral data mining, we’ve got elections covered
CGI and Idox partnered to deliver Scotland eCount

In May 2017, Idox supplied an effective eCounting system to the Scottish Government for the second time.

The system successfully supported all 32 Scottish councils taking part in the local government election under the country’s Single Transferable Vote (STV) system.

Idox is a chosen partner to deliver Scottish Local Government elections and by-elections until 2021.
Our national and international elections footprint

• All parts of the UK:
  – Scotland
  – England
  – Wales
  – Northern Ireland

• Across Europe:
  – Norway  – France
  – Austria  – Malta
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Manual voting: the early days

*The County Election*
George Caleb Bingham
1852
Why eVoting is difficult

**PRIVACY**
No-one else knows how you voted

**VERIFIABILITY**
Cast-as-intended; recorded-as-cast; counted-as-recorded

**ACCOUNTABILITY**
Misbehaving parties can be singled out

**COERCION RESISTANCE**
No-one can force or bribe you to vote a certain way
Verifiable but not private ...
Some solutions...

Poll card – Online vote – SMS return code
(Vote as many times as you like; last one counts)

Voter verifiable audit trail
Conclusion

• Electronic voting is hard

• 150 years ago, manual voting was flawed – we’ve learnt lessons and refined it over time

• The same can and should be done with electronic voting
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Thanks for listening ...

For more information, please visit: www.idoxgroup.com/elections

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