Idox Elections
Future of Electronic Voting – The First Principles

The University of Edinburgh

29 November 2017

@IdoxElections
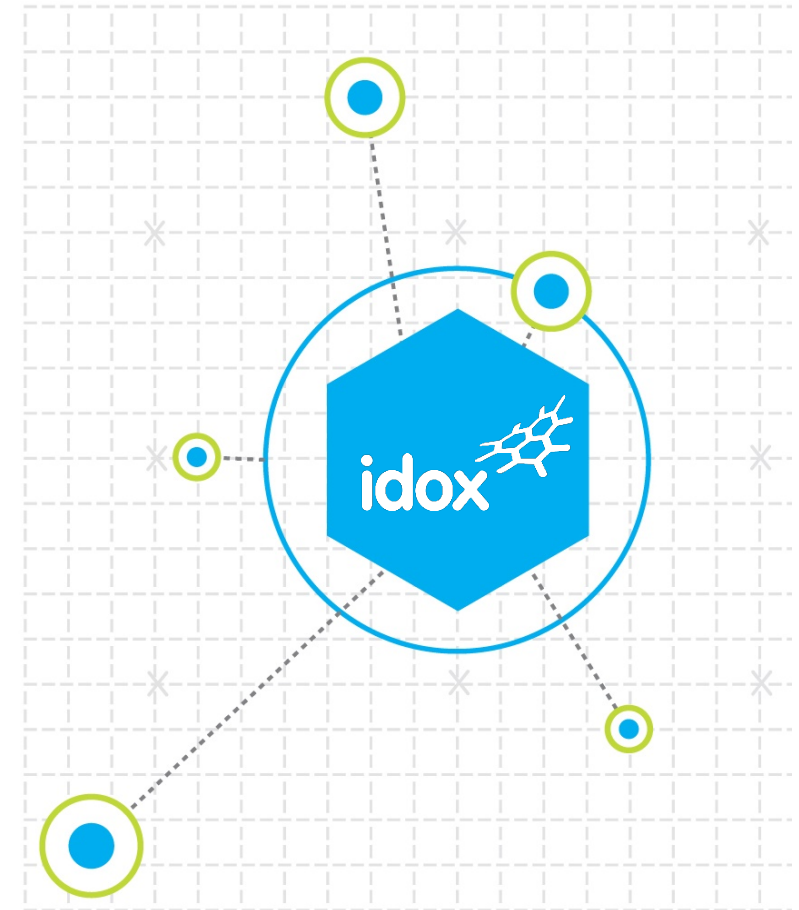
Agenda

- Brief introduction to Idox

- Why eVoting is hard and some solutions

- Questions

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- **Brief introduction to Idox**

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Where we operate

Our offices

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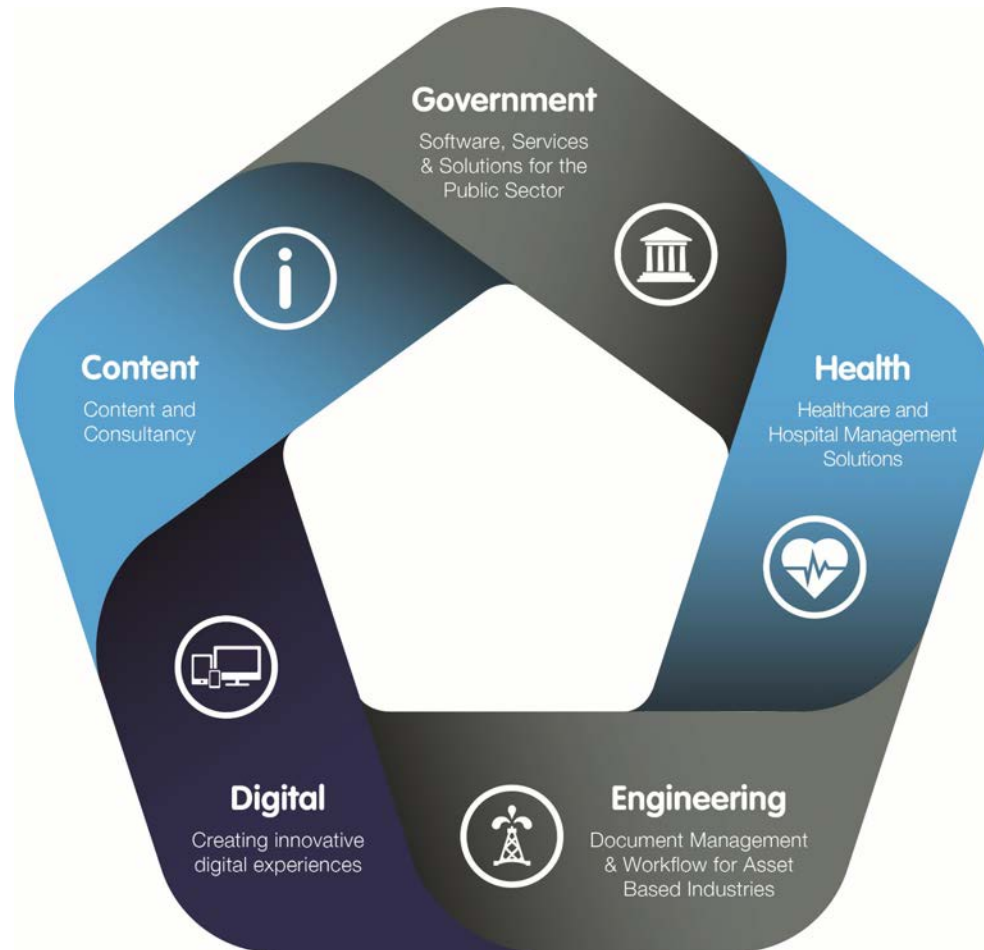London, UK
Manchester, UK
Theale, UK
Woodcote, UK

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

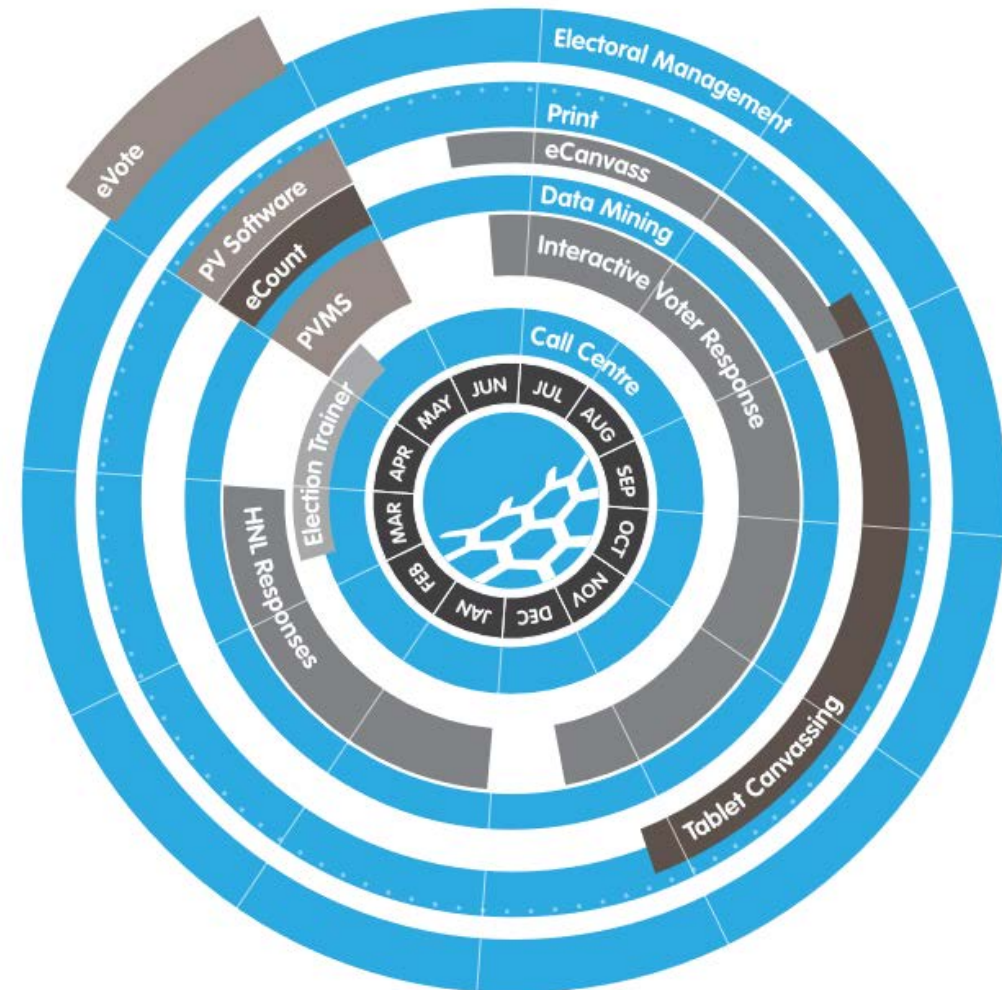### Rest of the World
Houston, USA
Pune, India

OFFICES
20
offices worldwide

EMPLOYEES
894
Group employees

Our sectors

Government
Software, Services & Solutions for the Public Sector

Content
Content and Consultancy

Health
Healthcare and Hospital Management Solutions

Digital
Creating innovative digital experiences

Engineering
Document Management & Workflow for Asset Based Industries

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.
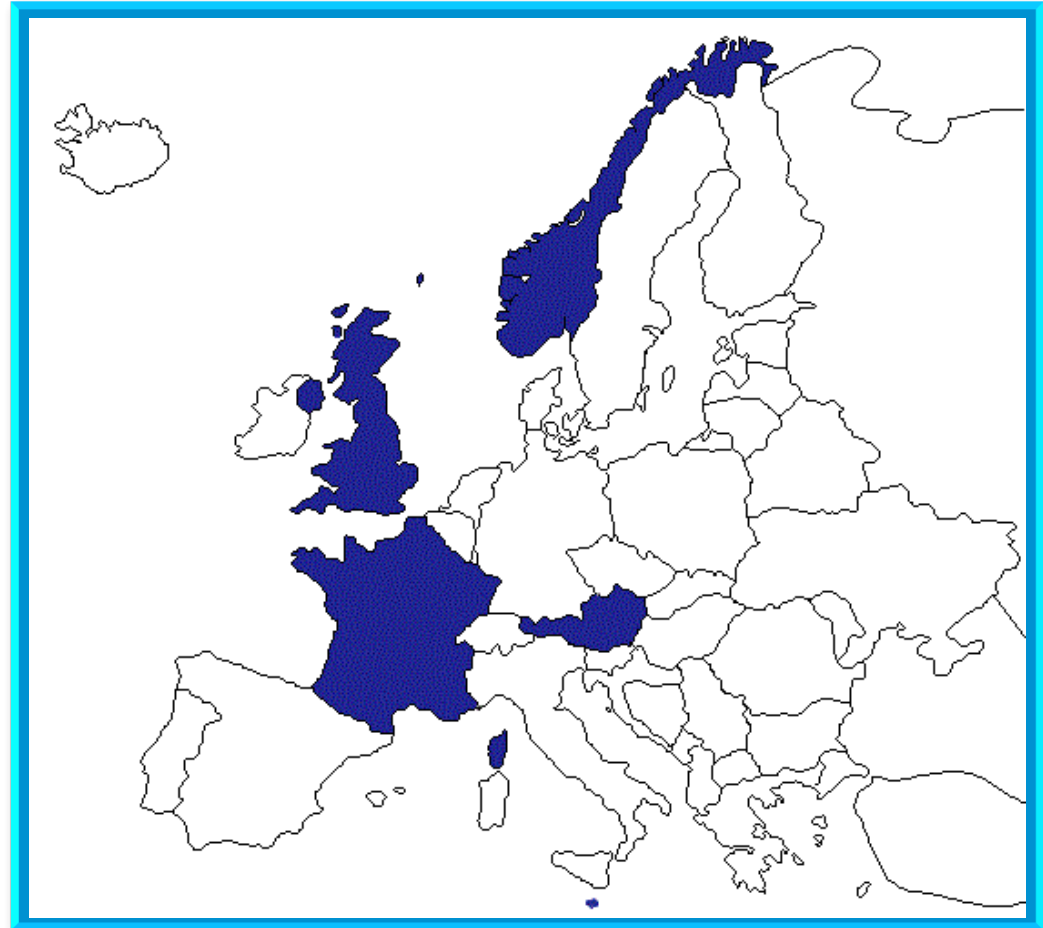
2021

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

1 The people

4,110,790
the number of Scots eligible to vote in the election

1,227
the number of councillors elected

2 The technology

700
the number of PCs required

249
the number of scanners ordered to handle the eCount

70
the number of servers deployed during the project

3 The count

440km
the length of paper scanned during the counting process

1.9 million
the number of ballot papers processed by the eCounting system

351
the number of wards within the local councils taking part in the election

09.15am
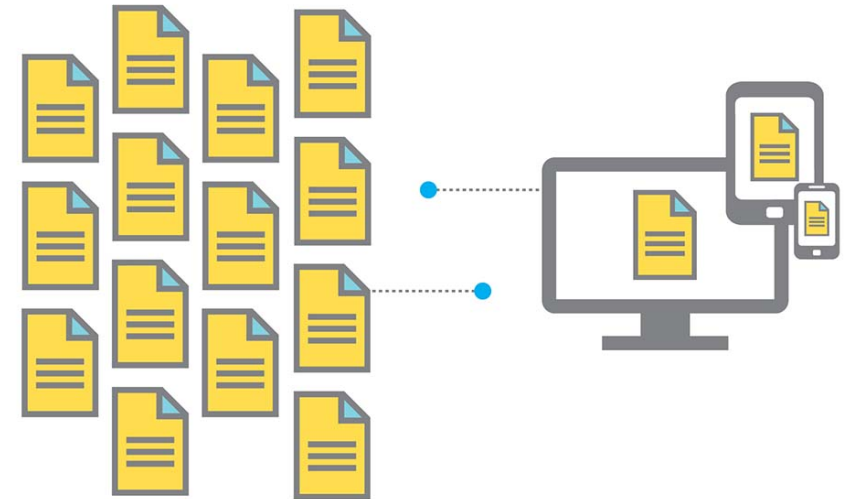first count completed by Orkney

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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Questions

Thanks for listening ...

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

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