



gaist
integrated intelligence

Transformation: Efficiency.....and
weather

A Presentation of two halves

1. Very brief summary about Gaist
2. Making Service reductions? Or just day to day efficiencies?
3. Cabinet Office/DfT Research on Local Highways
4. Technology the common theme

Gaist – not who you think we are?

- Work with over 25% Highway Authorities (County Councils & Smaller authority asset surveying/support)
- Technology & Innovation support to:
 - University based (York & Lancaster)
 - Government Departments including; MOD, DCLG, Cabinet Office, DfT
 - Councils including; Cumbria (Resilience & new tech) etc
- Work with major contractors such as Tarmac and KIER
- Data support (and data integrity analysis) including using blended data sources (Open, Scanner etc)

Where can service reductions be made?

1. Procurement particularly competitive dialogue
2. Collaboration (but with a health warning)
3. Low hanging fruit and being challenging

Efficiency Projection/realisation	Broad Characteristics	Broad Solution to achieving Efficiency
<p>Leading</p> <p>£ Large scale millions</p>	<ol style="list-style-type: none"> 1. Are being faced with substantial budget challenges 2. Likely to be an early adopter or possibly London Borough 3. Have already moved through trajectory of boxes below 4. Already involved in innovative projects and regularly used by government as an exemplar 	<ul style="list-style-type: none"> •Developing a more behavioural stance to change & service delivery •Services shared across boundaries e.g CEX/Service Managers •Radical exploration of alternative service delivery •Questioning delivery of service through 'Systems Thinking'
<p>Enabling</p> <p>£000,000 to £m</p>	<ol style="list-style-type: none"> 1. Usually exhausted routes listed in box below 2. Likely to be facing medium level cuts (hundreds thousands to millions) 3. Council innovation creeping up, service level innovation medium 4. Likely to be larger authority such as Met or Unitary, forward thinking County or District 	<ul style="list-style-type: none"> •Consortia well utilised •'Competitive Dialogue' used to get best service delivery •Joint contracting explored and utilised at local level •Shared services happening on semi formal level •Total place involvement •Strategic Reviews
<p>Helping</p> <p>£000's to 000,000</p>	<ol style="list-style-type: none"> 1. Smaller Council/Council with higher reserves 2. High Elected member engagement & support or strong will to retain status quo 3. Often very traditional in service delivery and approach 4. Ambition/skills in moving service forward are relatively low 	<ul style="list-style-type: none"> •Operational and frontline reviews e.g Route Optimisation •Reduce service level budgets incrementally •Consortium usage •Contract review on traditional basis •Specification adjustment

Reduction in service?

- No magic bullet
- Many authorities doing great things
- Important to remember history & where a service has come from (cherry pick right efficiencies)
- Consistently asking questions and challenging status quo
- Take a leaf out of Health Service Transformation
 - Arrogance biggest block to innovation, efficiency & change

Biggest area of efficiencies you can effect

- Fundamental Service Analysis
 - Does require being brave!
 - Does require not knowing the answers
 - Does require process mapping accepted norms!
- APSE are an important resource
- Looking at technology differently
- Relationships with elected members



Research into isolated communities

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UK Weather always unpredictable?

AN ACCOUNT
OF
The Great Floods
IN THE
RIVERS TYNE, TEES, WEAR, EDEN, &c.
IN 1771 AND 1815.

WITH THE NAMES OF THE PRINCIPAL SUFFERERS IN NORTHUMBERLAND, THE AMOUNT OF THEIR ESTIMATES, AND OF THE DAMAGE DONE IN EACH TOWNSHIP; ALSO AN ACCOUNT OF THE SUBSCRIPTIONS MADE FOR THEIR RELIEF IN 1771.

TO WHICH IS ADDED,
AN ACCOUNT OF THE IRRUPTION OF
SOLWAY MOSS.



Newcastle:
PRINTED FOR EMERSON CHARNLEY.
MDCCCXVIII.



UK Weather always unpredictable?



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Past and Present



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Times are changing and what about
our Highways?

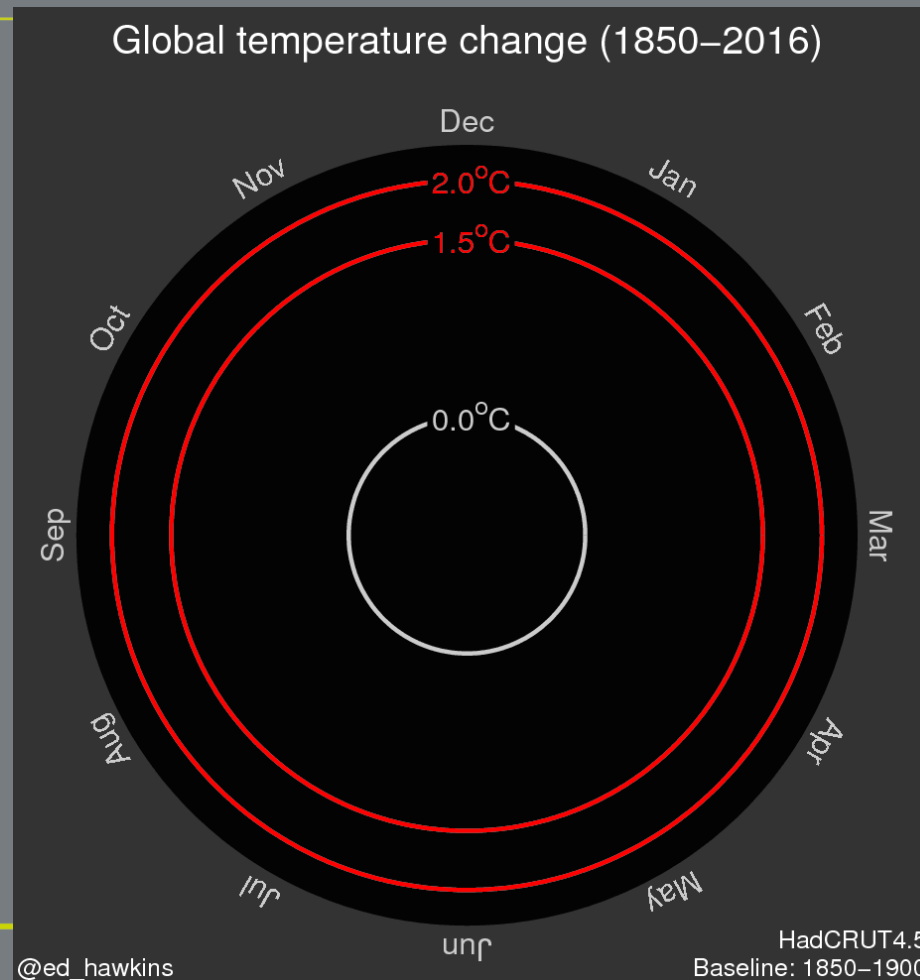
National Flood Resilience Review

- Asked by Sir Oliver Letwin to undertake a range of flooding scenarios on English Highways
- Using Algorithm problem solving we looked at:
 - Isolated Communities across England (not 'isolated' to northern authorities)
 - 1:30, 1:1000 (Depth 1ft/2ft)
 - Road/River intersections
 - Vulnerable assets analysis

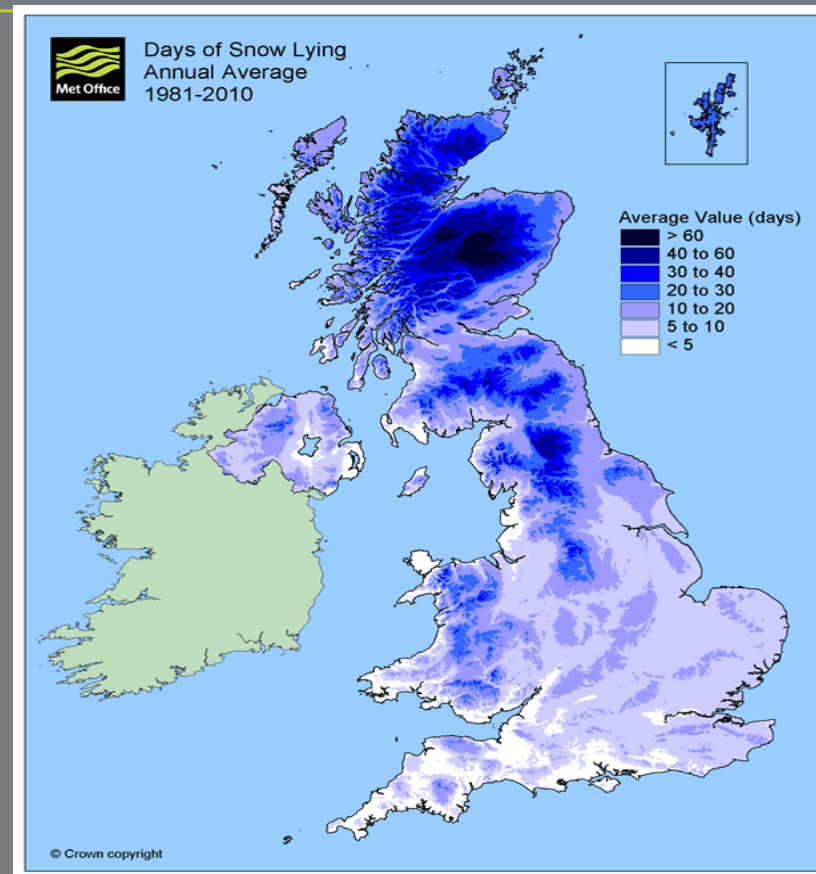
Post National Flood Resilience Review

- Initial data using EA highlighted scenario challenges
 - Responsible use of Data, unintended consequences
 - Property blight
- Met with LGA and discussed approach
- Currently reviewing best way for councils to input e.g Bridges/Culverts
- DfT considering additional ways to support in extreme events

Weather - Temperature

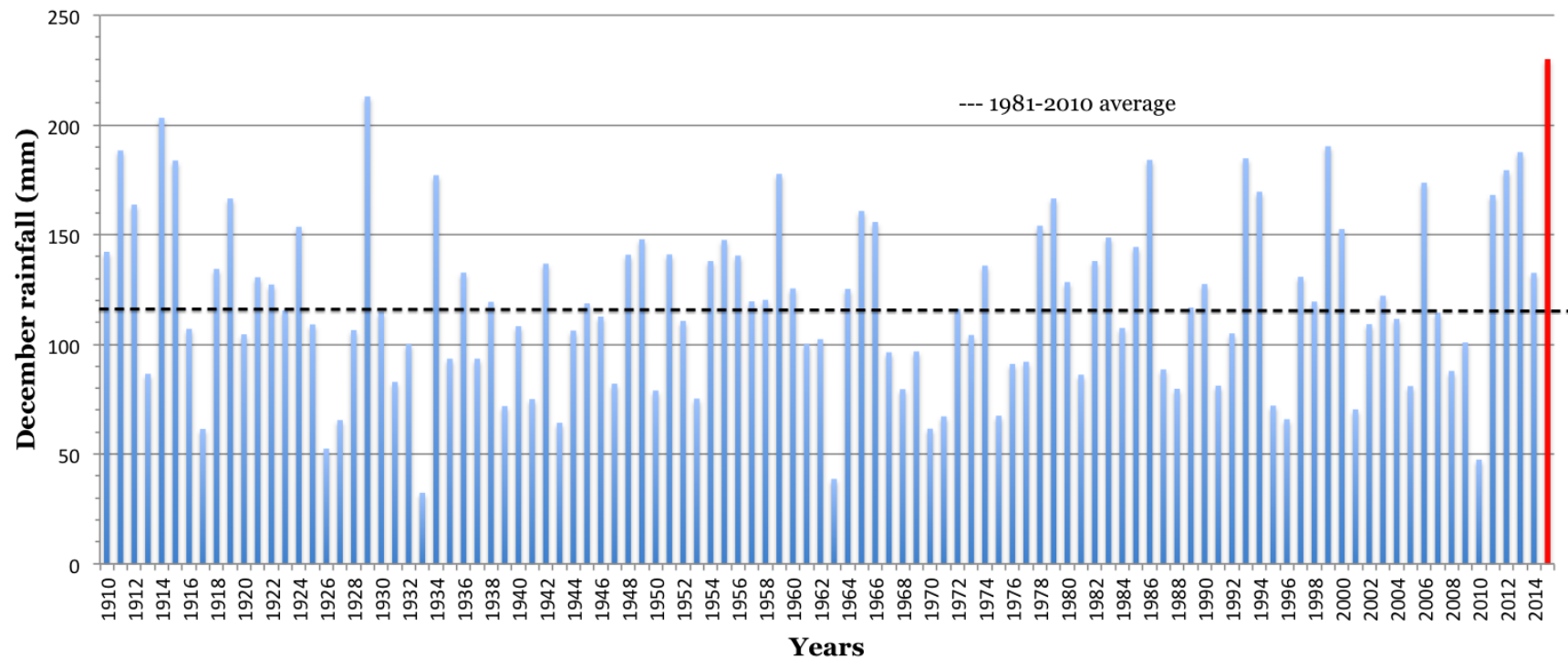


Increased Snowfall

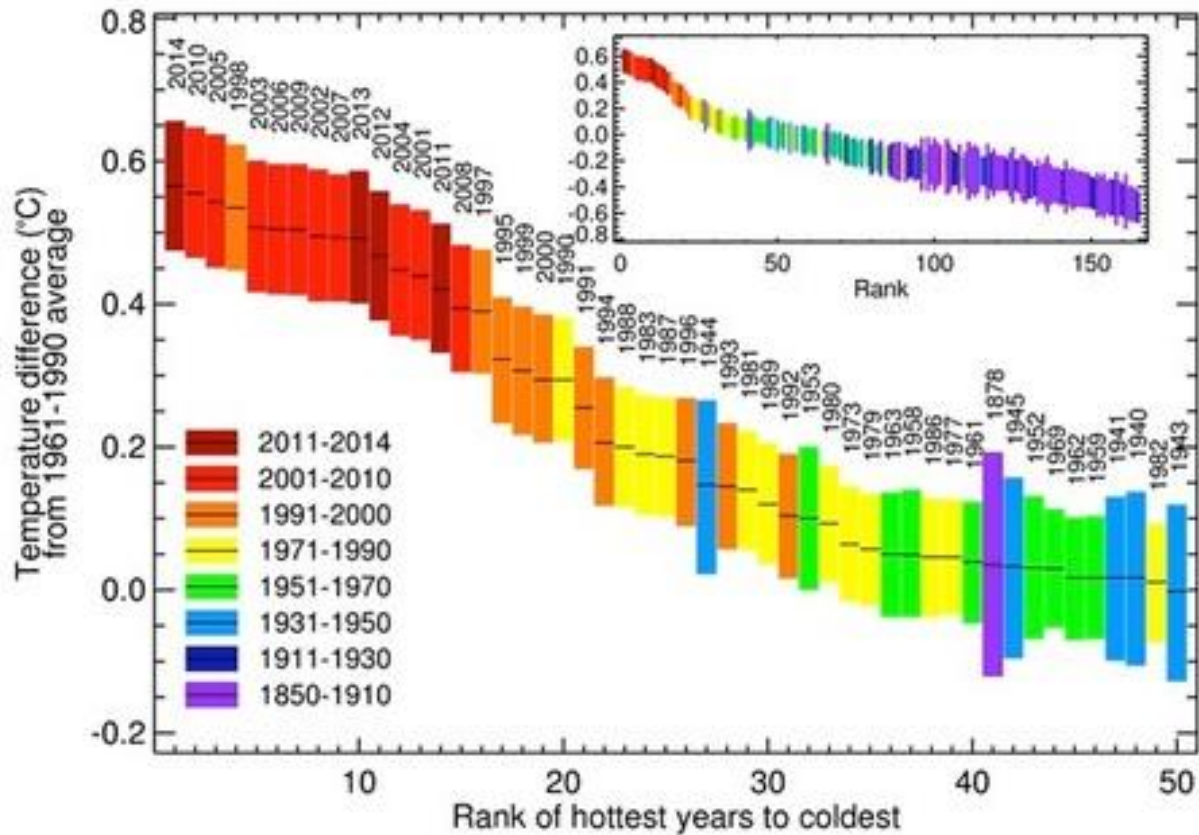


Rainfall peaks and troughs

UK December rainfall



BUT.....



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Are we winter ready?

- Society is changing
- Public finance is changing
- Expectations of Councils & Government is changing with each extreme event
- Social Media & instant media has challenged the impact people see

Technology binds my points

- Technology (& social media) can be as much your friend as it can be your master
- Technology is no longer expensive but you can make it expensive.....unintentionally
- Incremental Innovation goes hand in hand with service transformation
- Don't forget your users, Elected Members & staff

Thankyou

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