

Agile government: drivers, challenges, and outlook

EU-LISA industry round table "Implementing Agile in the public sector – What does research tell us?"

Dr David Baxter 11th June 2025

About me

- Dr David Baxter, Associate Professor of Innovation, University of Southampton, UK
- Cranfield PhD
 - Knowledge Management for Engineering Design
- Cranfield School of Management 2009-2014
 - Lecturer in Innovation
- Southampton Business School 2014 →
 - Doctoral programme director in the business school
 - Current research: Agile, Serendipity, Effects of Aladoption



Talk outline

- Agile: an introduction
- Why Agile? Drivers of agile government
- My research: effects of agile
- Outlook: What's next for Agile government?



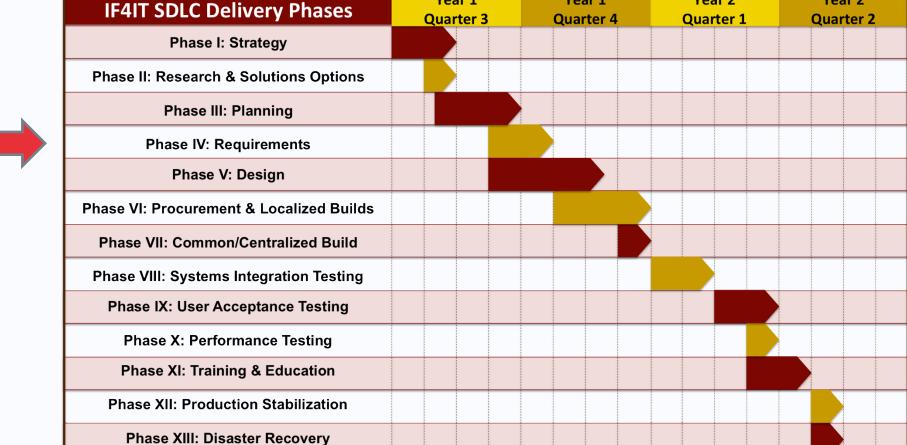
Why Agile?

- Computers, the web, and smartphones changed the world
- Public services in a digital world could be:
 - Citizen centric
 - Adaptive, effective, efficient
- ...It wasn't like that to start with





Why not?



Year 1

Year 1

Year 2

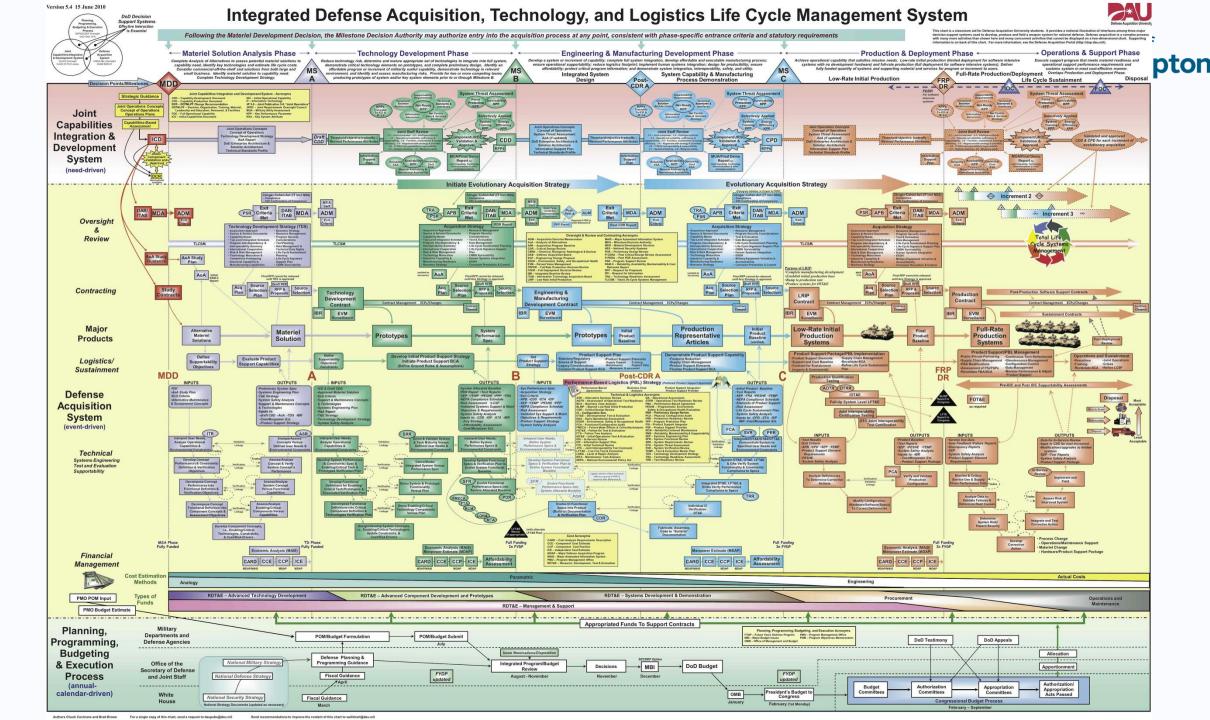
Year 2

Closing of Release & Post Mortem Activities





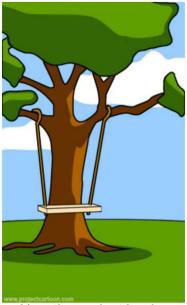
Figure: Inple Layout of SDLC Phases as Key IT Projectiones



"How projects really work"



How the customer explained it



How the project leader understood it



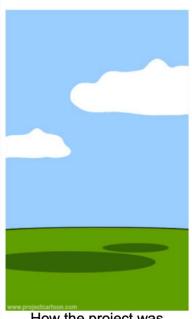
How the analyst designed



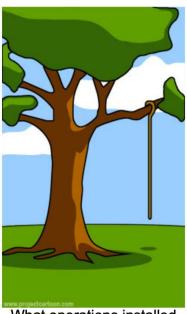
How the programmer wrote it



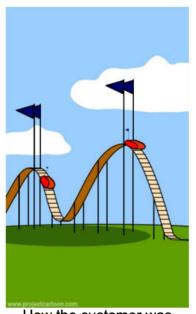
How the business consultant described it



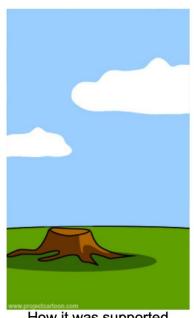
How the project was documented



What operations installed



How the customer was billed



How it was supported

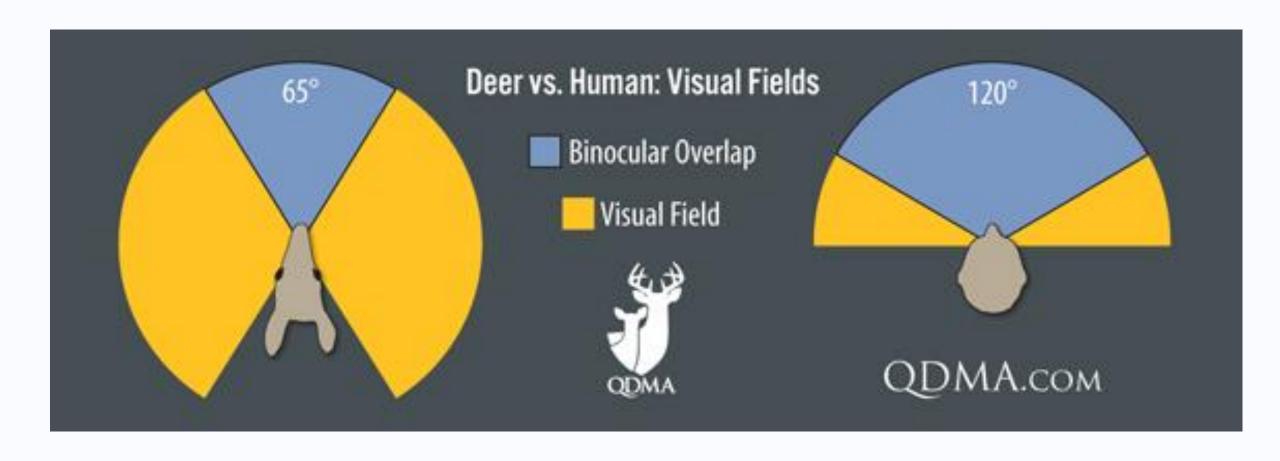


What the customer really needed

Source: http://www.projectcartoon .com/cartoon/3

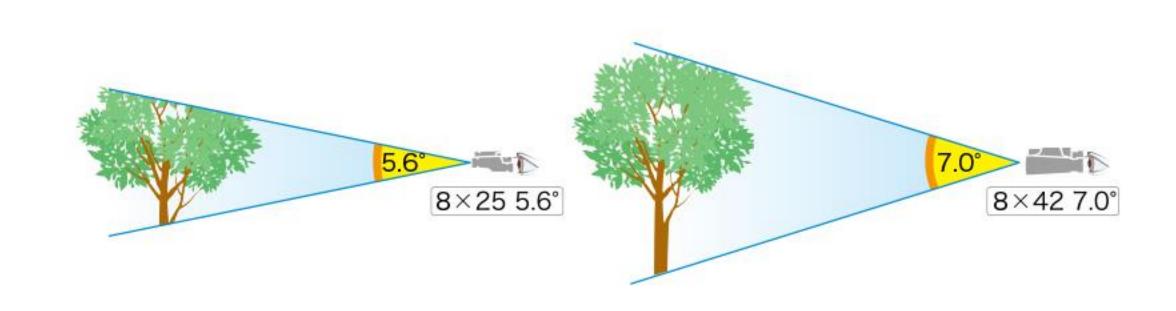


Designer vs. customer?



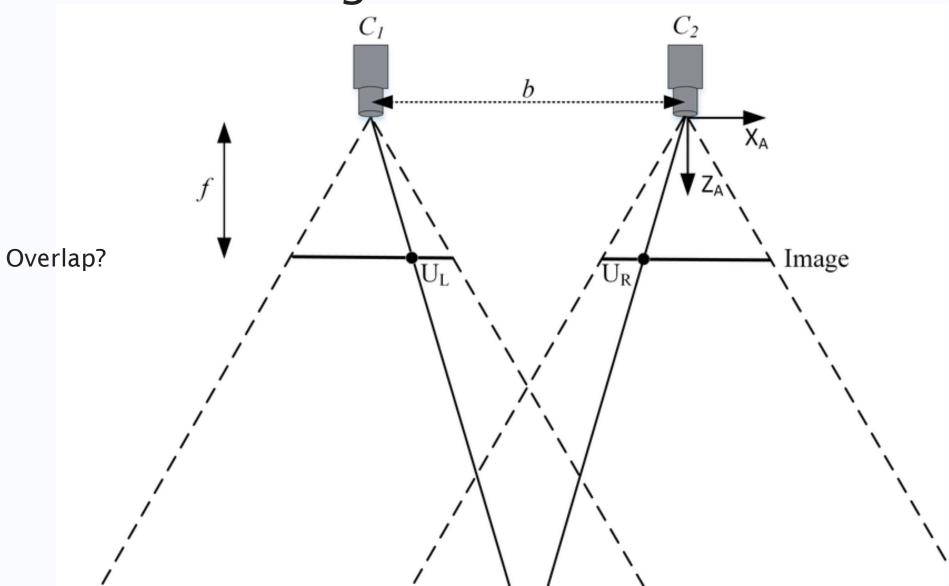
Designer vs. customer?



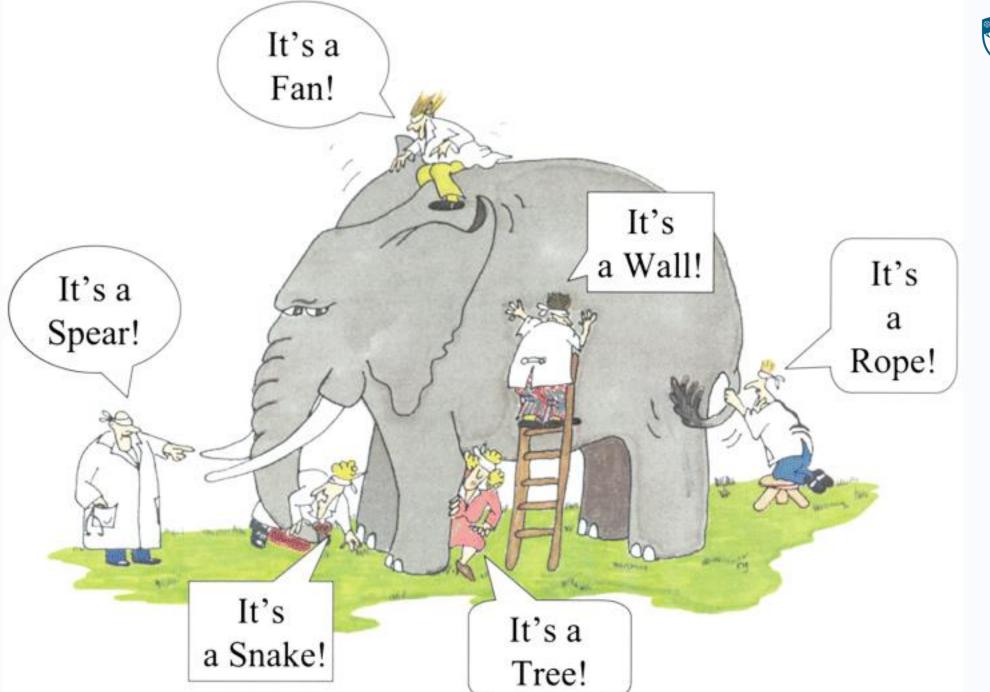


Designer vs. customer?













Oh... it's an elephant



Perspectives vary

• ...and your users are probably not designers









"If I had asked them what they had wanted, they would have said a faster horse"



Changing the assumptions

Stable, existing market

We know what they want

We know if they will like it

We understand the market



Changing the assumptions

Stable, existing market	New, uncertain, or different
We know what they want	We don't know what they want
We know if they will like it	We can't tell how they will respond
We understand the market	The market has already changed

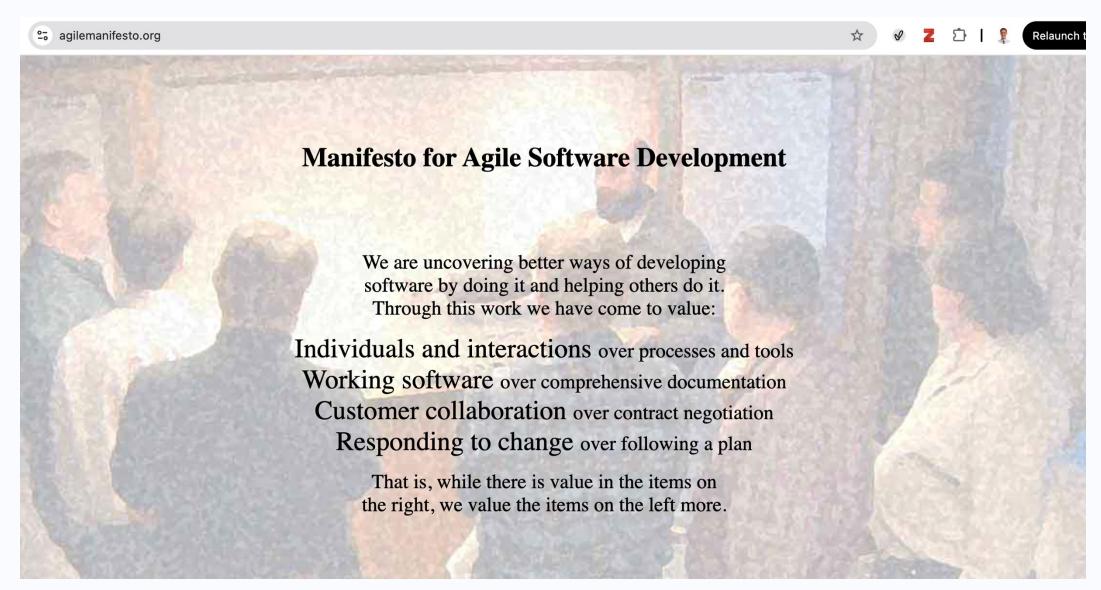


Changing the assumptions

Stable, existing market	New, uncertain, or different
We know what they want	We don't know what they want
We know if they will like it	We can't tell how they will respond
We understand the market	The market has already changed
What are the implications?	
Plan it in detail first	Start small and experiment, or trust bold visionaries

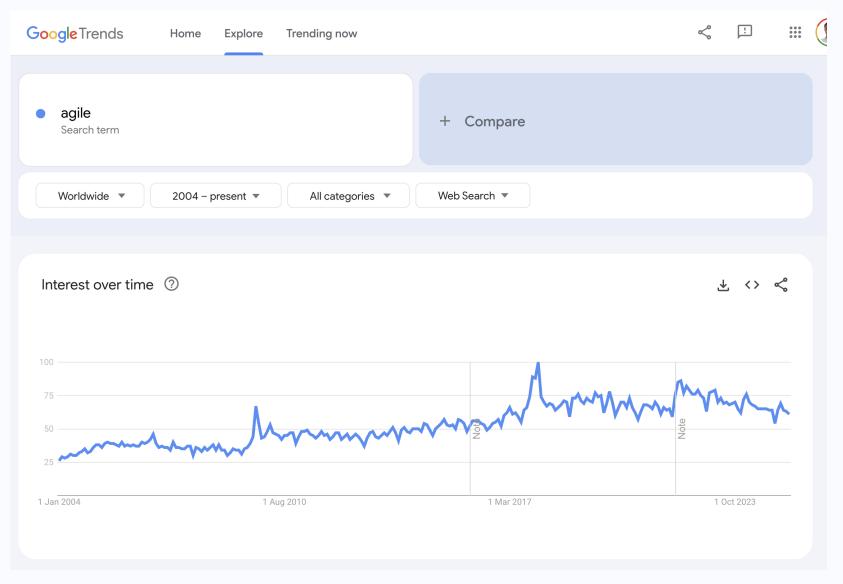


Agile (2001)



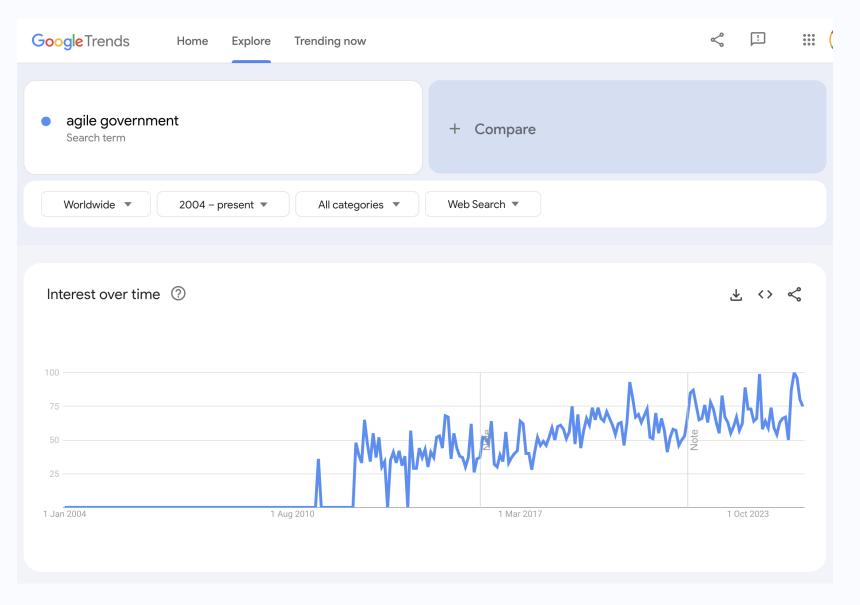


Agile (2004-2025)



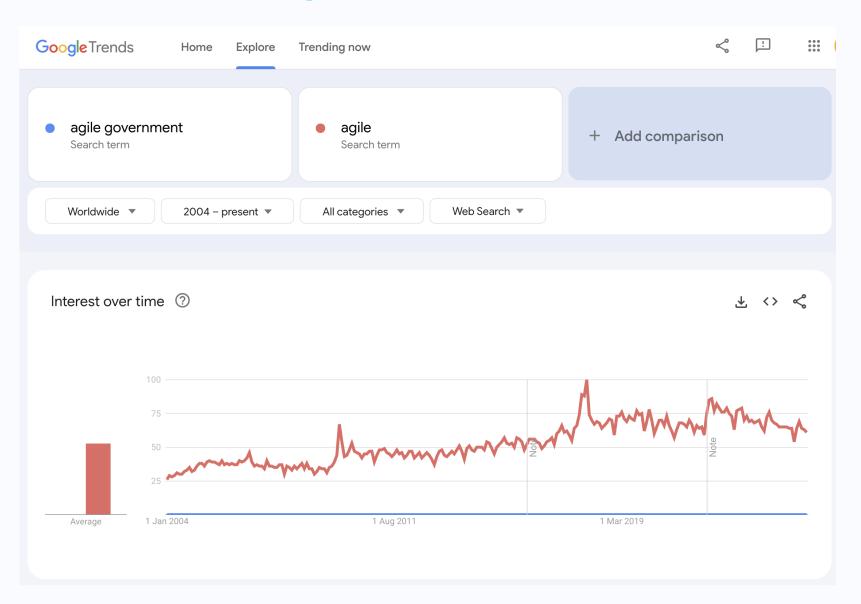


Agile Government (2004-2025)



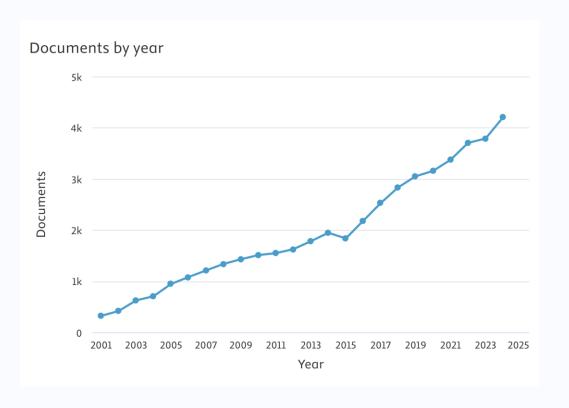


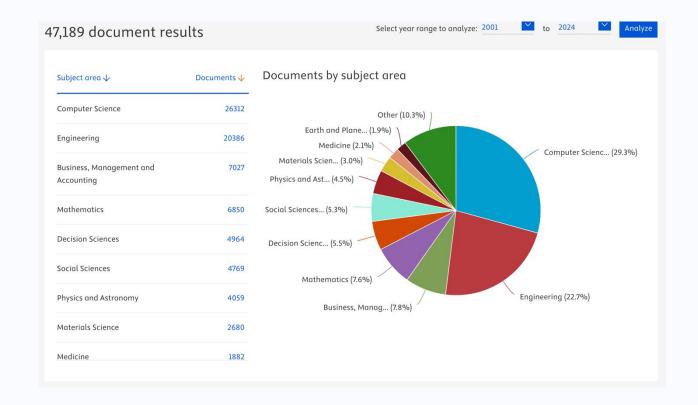
Agile Government vs Agile (2004-2025)



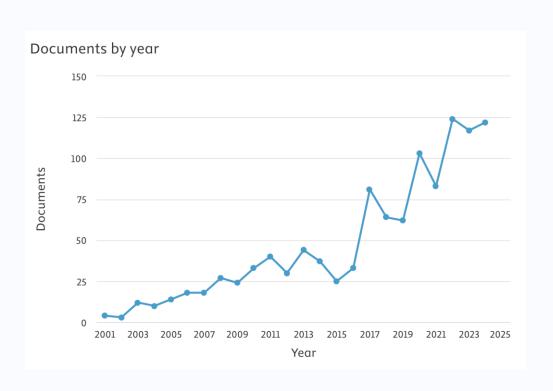


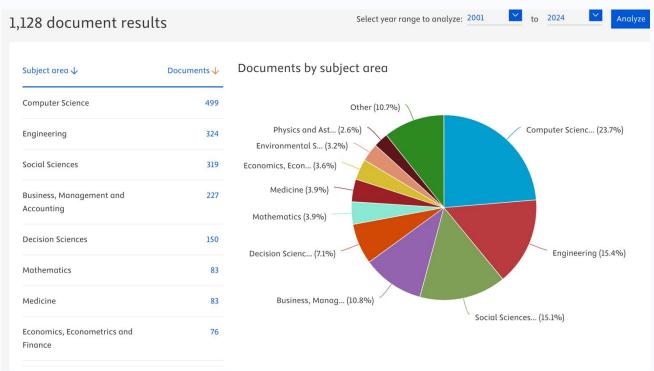
Agile (2001-2024): Scopus academic search





Agile Government (2001–2024): Scopus academic search





Even in 2020 academics are saying "there is little knowledge about the use of Agile in the public sector"

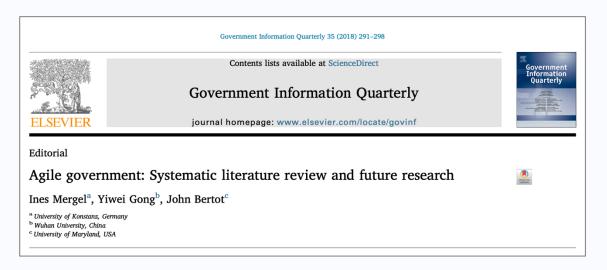
Academic trends in Digital Government

- E-government
- Open government
- Digital government
- Adaptive governance
- Collaborative governance
- Agile government
- ...COVID-19



Government Agile: academic research

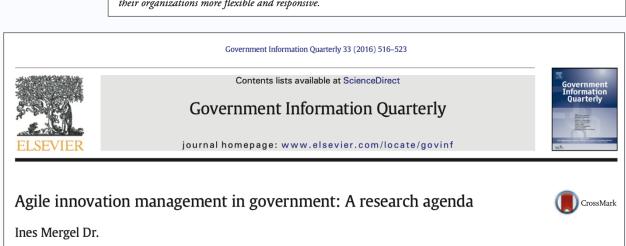
The academic foundation is improving







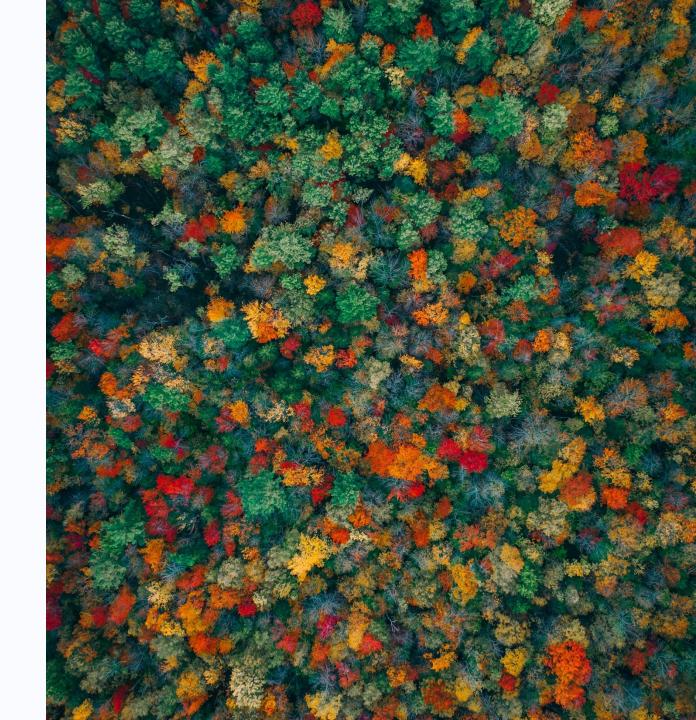
Abstract: The evolving concept of "agile" has fundamentally changed core aspects of software design, project management, and business operations. The agile approach could also reshape government, public management, and governance in general. In this Viewpoint essay, the authors introduce the modern agile movement, reflect on how it can benefit public administrators, and describe several challenges that managers will face when they are expected to make their organizations more flexible and responsive.



University of Konstanz, Germany

Government Agile: academic research

- Agile can help innovate digital service delivery in government (Mergel 2016)
- How to do agile as a key topic (Mergel et al. 2018)
- Agile has the potential to reshape government (Mergel et al. 2020)

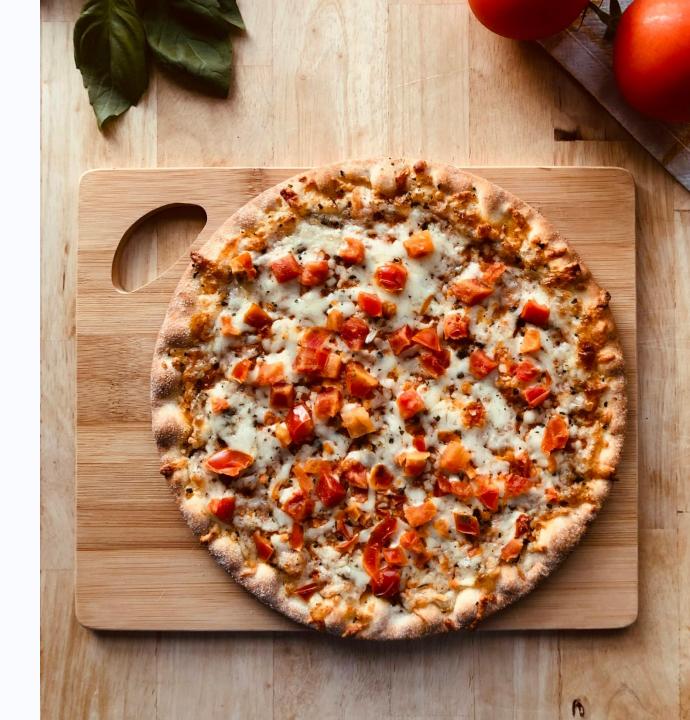


• "better ways of developing software" - expressed as values and principles in the Agile Manifesto



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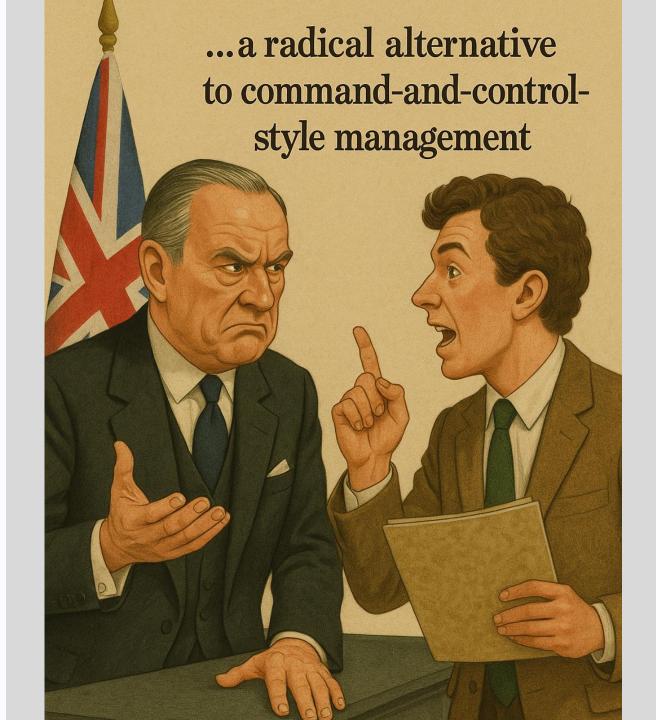
• A team-level idea



• "a radical alternative to command-and-control-style management" (Rigby et al. 2016)



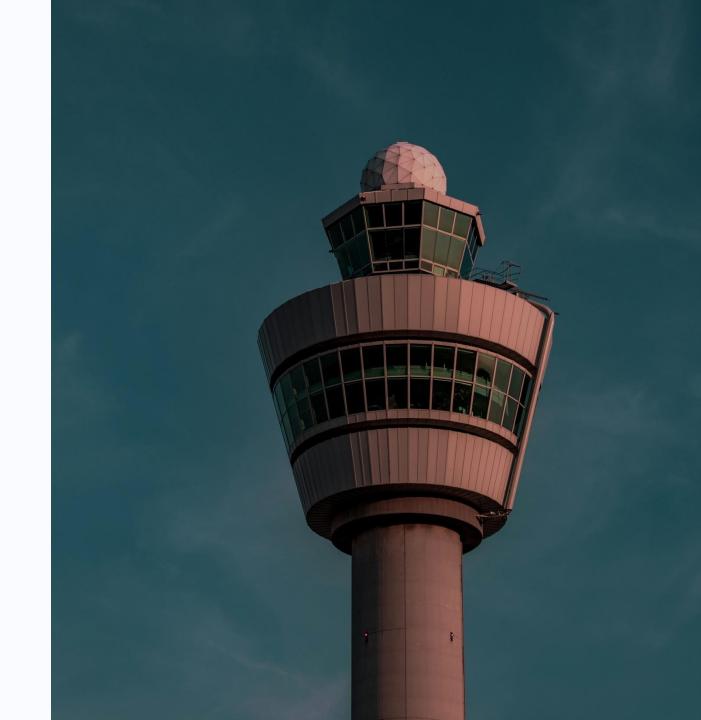
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My Research: effects of agile

- Agile Reduces Complexity Through:
 - Better coordination (structural)
 - Shared understanding of goals and problems (cognitive)
 - Faster problem-solving and fewer misunderstandings (relational)
- "Scrum and social capital are mutually reinforcing"







- Agile Project Management (APM) is a distinct project management paradigm
- "Agile Project Management is a flexible approach that includes discovering the aim and delivering the project. It embodies the organizational capability to adapt to changes as they arise."





Project Management Journal
Volume 55, Issue 6, December 2024, Pages 668-688
© 2024 Project Management Institute, Inc., Article Reuse Guidelines https://doi.org/10.1177/87569728241254095

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Article



What is Agile Project Management? Developing a New Definition Following a Systematic Literature Review

Hao Dong 1, Nicholas Dacre1, David Baxter1, and Serkan Ceylan2

My Research: effects of agile

- Agile changes the institutional environment
 - From Commodity Supplier to Mission Collaborator
 - One Team Culture



Contents lists available at ScienceDirect

Government Information Quarterly

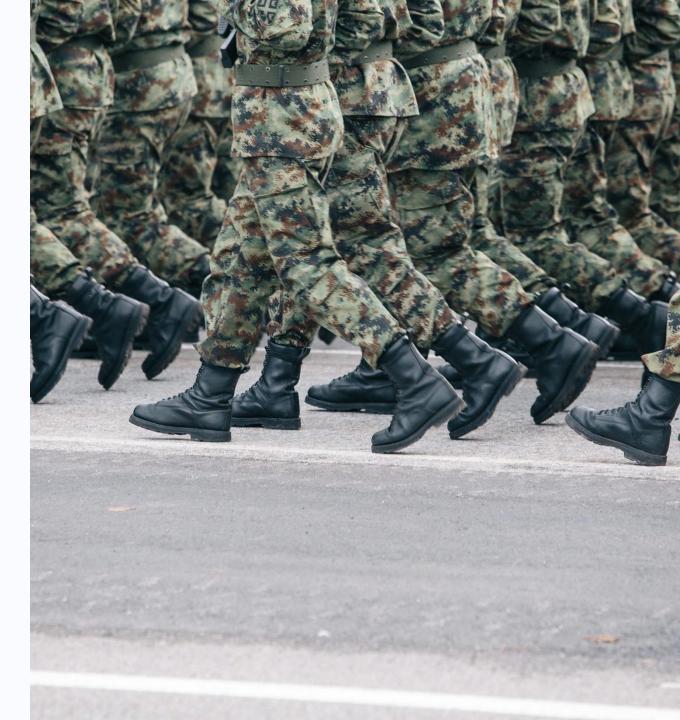
journal homepage: www.elsevier.com/locate/govinf



Institutional challenges in agile adoption: Evidence from a public sector IT project

David Baxter^{a,*}, Nicholas Dacre^a, Hao Dong^a, Serkan Ceylan^b

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^b School of Project Management, Arden University, Arden House, Middlemarch Park, Coventry CV3 4FJ, UK



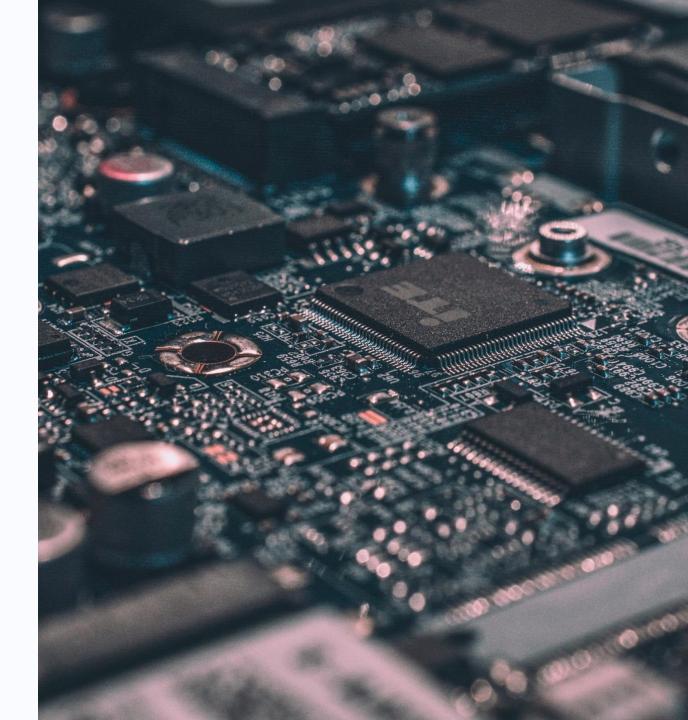
My Research: effects of agile

- Agile is also critical to digital transformation
- "Agility and digitisation aim for similar outcomes. Both seek to make organisations more responsive, adaptable, and efficient"
- 63% of professionals said agile is important for digital transformation.



Digital transformation and the AI imperative in public and private sector projects: Methods and skills for project management

Nicholas Dacre, David Baxter, Hao Dong, MKS Al-Mhdawi, Ranga Abeysooriya, and Yixue Shen



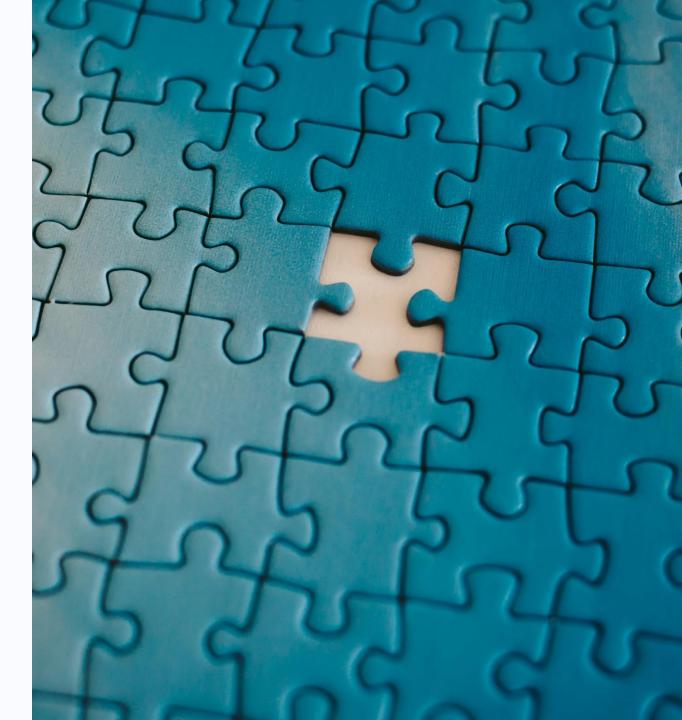
Research lessons learned

- Things we observed
 - Agile changes teams
 - Agile changes projects
 - Agile changes organisations



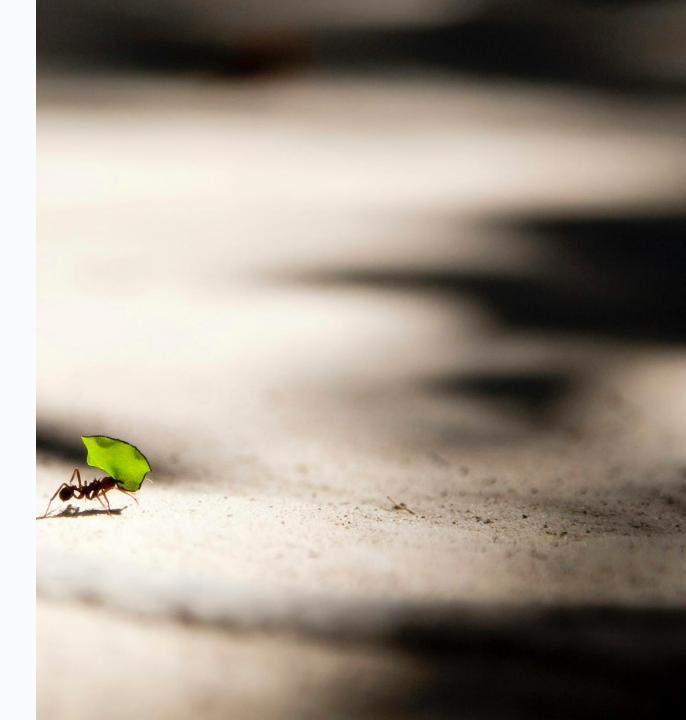
Research lessons learned

- What's missing?
 - Agile at scale (beyond a 2-pizza team)
 - Agile maturity models
 - Agile skills
 - Agile project management at government scale: project definition, contracts, DevOps
 - Agile governance



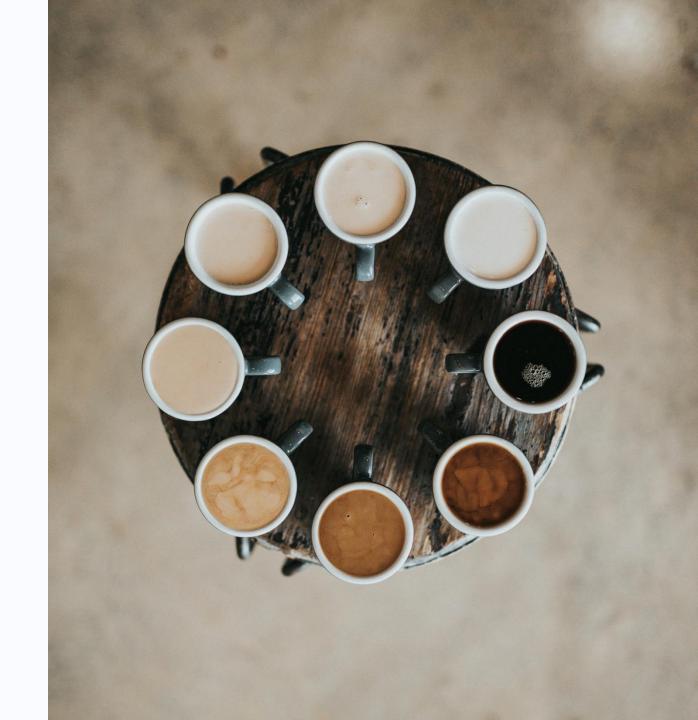
Why is Agile Government hard?

- The government need for accountability (and the usual methods of providing that) clash with Agile
- Project flow is not Agile
- Regulations don't allow it
- Contracts don't include it
- Experience is lacking



When is Agile the right approach?

Contingency



Management methods



Solution clear unclear - Lean Startup unclear - The Scientific Method 'Experimental' Goal - Stage-Gate - Agile - Waterfall 'Adaptive' 'Structured' clear



Outlook

- Agile government going forward
 - Agile as a citizen-centric, embedded capability
 - Government departments as system architects, as the design authority, and as the orchestrator of digital services
 - Agile *policy* as an embedded element of government service delivery
 - Agile maturity frameworks are needed





Outlook

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 - Government departments as system architects, as the design authority, and as the orchestrator of digital services
 - Agile *policy* as an embedded element of government service delivery
 - Agile maturity frameworks are needed
- ...Al in everything





YOUR QUESTIONS

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