Rethinking the Scientific Data Journey: From Project to Product Mindset

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March 10, 2025

About Astrix

For over 28 years, our unique blend of specialized strategic and technical services, processes, and a technology-agnostic approach has made Astrix a leading partner in transforming the success of life sciences and science-based organizations in digital transformation.

90% — **Nearly all our staff hold advanced scientific degrees.**

28+ Years — **Serving the scientific community since 1995.**

Speaker Information

Dave Dorsett

Chief Digital Officer

Dave Dorsett brings over 30 years of experience in R&D informatics within the global pharmaceutical, chemical, and consumer goods industries.

He has a track record of architecting, designing, and delivering both commercial and in-house informatics solutions across the entire R&D spectrum, from early research through late-stage development and manufacturing, and has led several major digital transformation programs.

Background

- **“Digitalization”** is about changing practices to data-first methods
- **Changing Practices** === Transforming How Work is Done
  - It’s a people thing!
  - Technology is only a tool
- This is not new- excerpts from my personal history
  - 1980s: chemical structures from paper into databases
  - 1990s: *in-vitro* high throughput screening, liquid handling robotics, library design
  - 2000s: robotic catalysis R&D and physical-mechanical property testing and modeling
  - 2010s: paperless veterinary sciences, study design

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Program or Project?

Simplified definitions:

- **Project:** effort to deliver an output
- **Program**: effort to realize a benefit

Which better describes your goals for Digital Transformation?

If it's Program, then…

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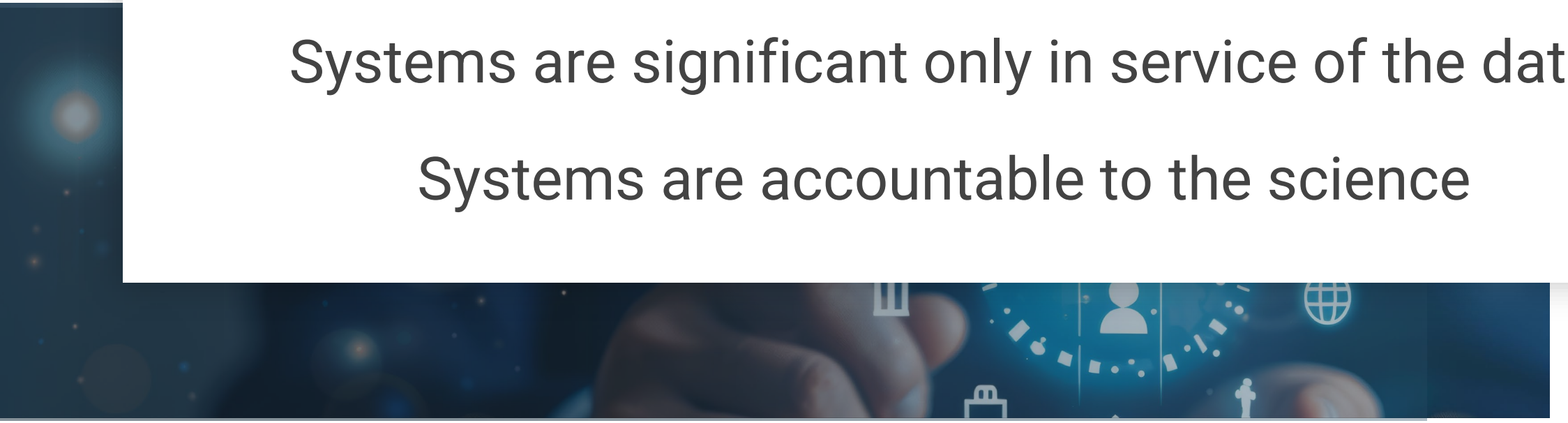
Realizing Benefits in R&D

To realize benefits, the program focus must be **Science**, not **Systems**

Systems are significant only in service of the data

Systems are accountable to the science



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How Do We Define R&D Benefits?

One way:

Move the thinking about Data from Capture to Use

- Drive programs from the use of data **back** to the creation
- Target practical, real-world changes to how scientific outcomes are achieved

How Do We Realize R&D Benefits?

It's all about people

- **Change Management:** carrots and sticks
- **Getting the ball rolling:** incremental demonstration of real change

"Usability" is **the** key, but be watchful how it's defined

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A Few Traps of Note

- System-Speak

  Systems should be models of the science: they are imitations, not realizations

  Using system as examples is fine, but be wary

- BLR (**B**ig **L**ump of **R**equirements)

  Be brutal with your goals and requirements: why?-why?-why?

  Target outcomes that are practical, measurable, and strongly prioritized into a sequence of steps that are each minimal and valuable

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