Modernization – A Technical Perspective

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AIRA National Meeting

April 2022

Welcome!

❑ Modernization, again?

❑ Some guiding principles

❑ Technical perspective, where to focus?

❑ Many paths to a goal

❑ 3 Examples from Envision experience

❑ Community perspective

❑ How does the community win?

Modernization again? It's a journey not a destination...

"Without continual growth and progress, such words as improvement, achievement, and success have no meaning."
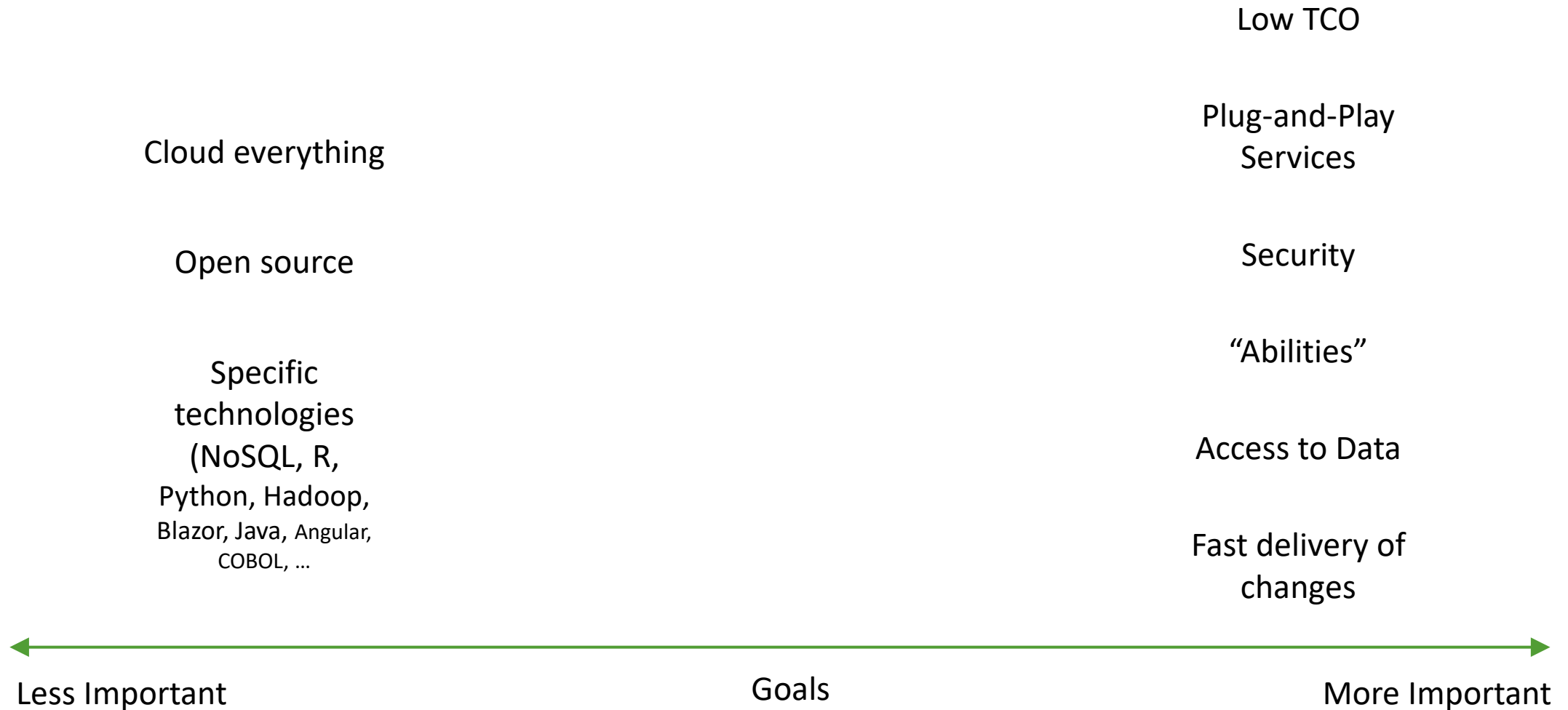
— Benjamin Franklin

What do you think of when you hear "modernization"?

Where do I begin?

❑ Define the 'value' in your modernization efforts

- What problems do we expect to solve?
- How will our efforts increase value for our organization?

❑ Strive for simplification, w/ design for flexibility and speed

❑ Business requirements drive technology modernization

- Not all technologies will work for you, it is okay
- One size doesn't fit all – no easy button
- Think sustainability

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Technical Perspective: where to focus?

Low TCO

Plug-and-Play
Services

Cloud everything

Open source

Security

"Abilities"

Specific
technologies
(NoSQL, R,
Python, Hadoop,
Blazor, Java, Angular,
COBOL, ...)

Access to Data

Fast delivery of
changes

←——————————————————————————————→

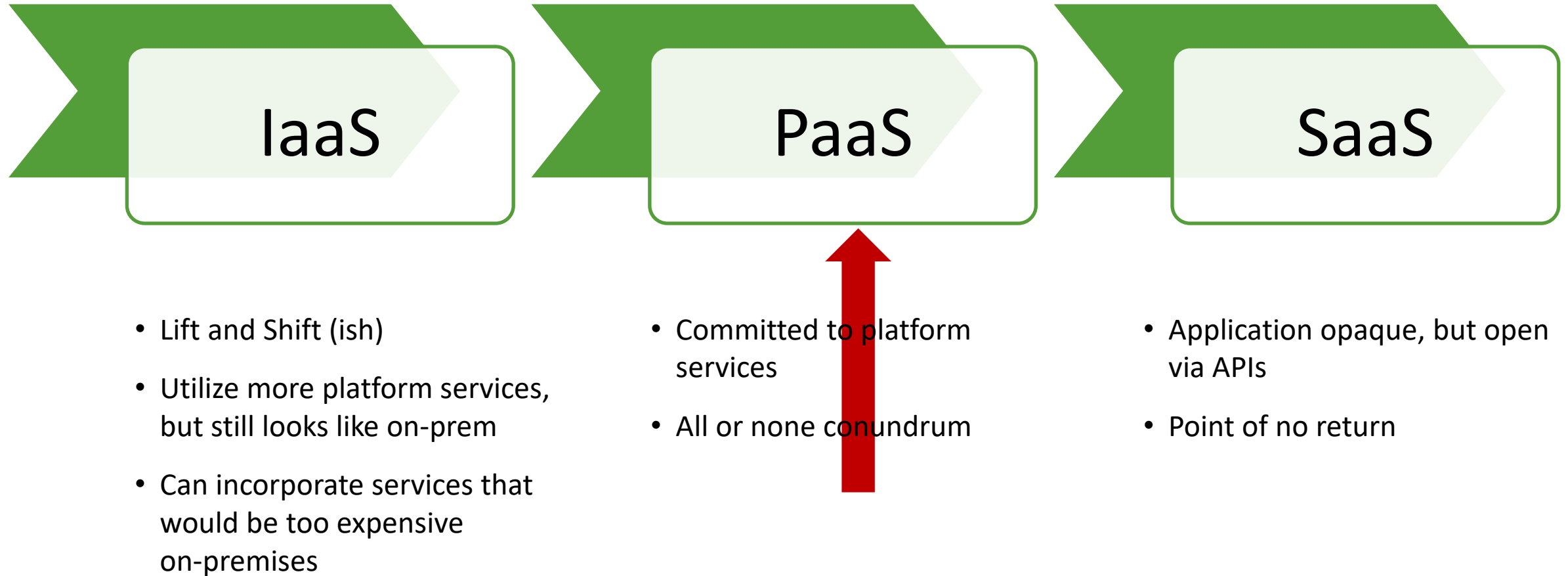Less Important   Goals   More Important

Many Paths to A Goal

❑ Incremental vs. "Big Bang"

❑ Measure outcomes vs. outputs

❑ Manage change that impacts users

❑ Pick paths of least resistance

Example: Cloud Migration

IaaS → **PaaS** → **SaaS**

- Lift and Shift (ish)

- Utilize more platform services, but still looks like on-prem

- Can incorporate services that would be too expensive on-premises

- Committed to platform services

- All or none conundrum

- Application opaque, but open via APIs

- Point of no return

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Example: Adoption of Smarty [Streets]

❑ Low barriers to implement

— Simple to consume APIs

— Well-documented responses

— Costs mitigated

— Minimal legal hurdles

❑ Outcomes

— 2+ years to full embed

— Correcting and geo-coding all data at rest

– Much improved data quality

– Patient matching improved

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Example: Accessibility

❑ New vs. old code

❑ Inconsistent measurement
— WCAG 2.0 A → AAA
— Screen reader scores differ

❑ Outcomes
— Public Portal achieved AAA compliance
– 3 pages required 3+ months of effort
— Goal for remainer of site is A to AA
– Working through ~100 relatively new pages / 500+ addl. pages to consider

Community Modernization Perspective

How does the community win as we go forward?

❑ Modernization Working Group

— Where else can we benefit from shared services?

— How do we fund and support?

❑ Drive to Certification

— Not just validation (build on it)