

# SIF 2: The Data Model that Refused to Die



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# Agenda



- MA SIF Implementation
- Move to SIF 3
- Reconsidering
- Unity
- Thoughts?

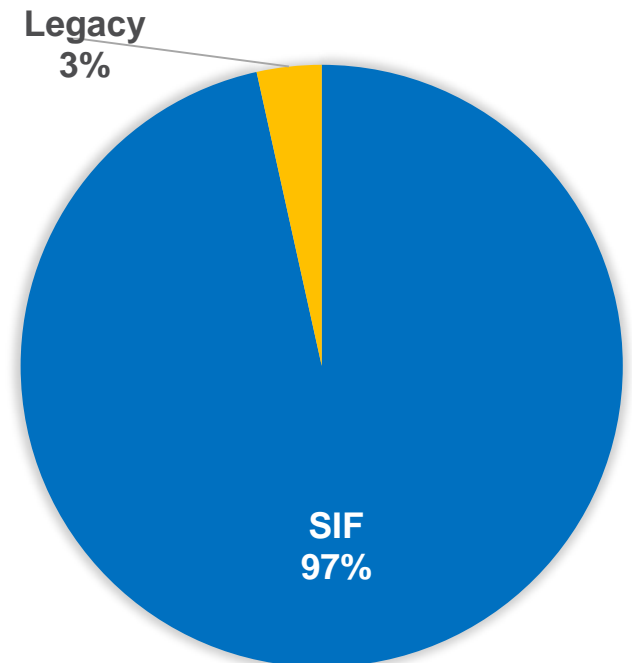
You can't have your cake  
and eat it, too!

*Practical Wisdom*

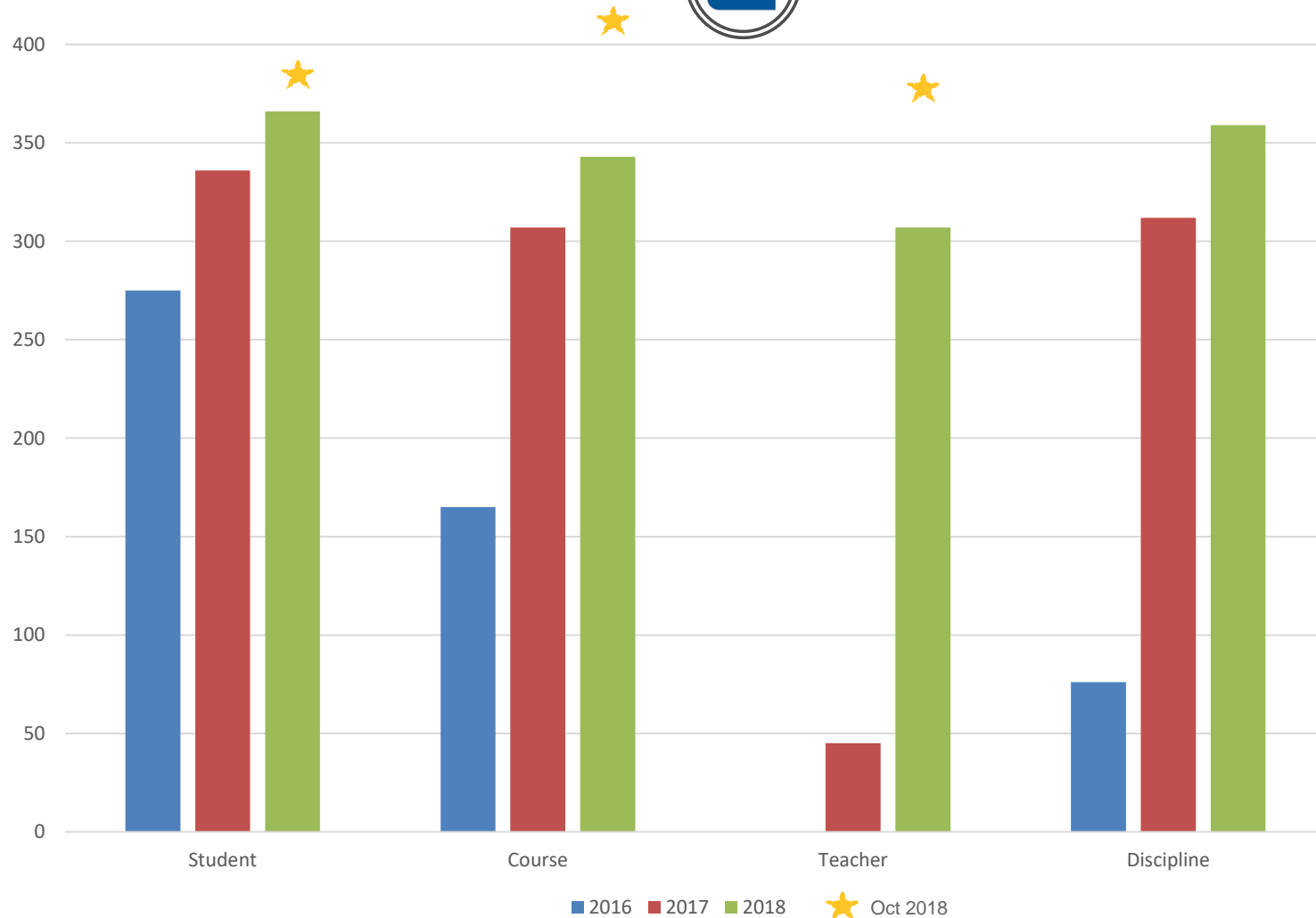
# MA SIF 2.7



- Started in SIF 2.0 in 2012 for K-12 Data Collection
- Implemented SIF 2.7 in 2014-2015 (Bridge to SIF3)
- 417 districts sending real-time SIF 2.7 data
- Feeds:
  - Student ID Request/Return Messages
  - Homeless and Foster Care
  - SLDS (Edwin)
  - Early Warning Indicator System (EWIS)
  - Teacher Candidate Assessment of Performance (CAPS)
  - Self-Service BI & Data Analytics Pilot



# District Certifications using SIF Only



# Move to SIF 3 MA Perspective



**Compliant** unknown  
**With MA Standards**

**modern**

huge lift for EOE support

**learning curve!**

**infrastructure**

\$\$\$\$ new

**need funding!**

We like our  
Data model

**Scalability**

**achieved stability in 2.7!**

mixed buy in

**Faster!**

Step back for business

Aligned with

MA Move to Cloud Initiative

CEDS

**SIS vendors –**

VT in Progress

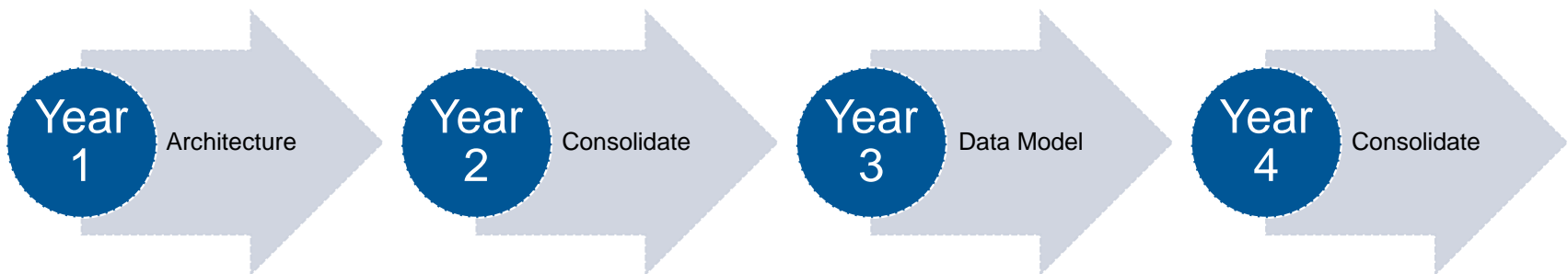
**2 years lead time**

Too much change

# Rethinking – First Thoughts



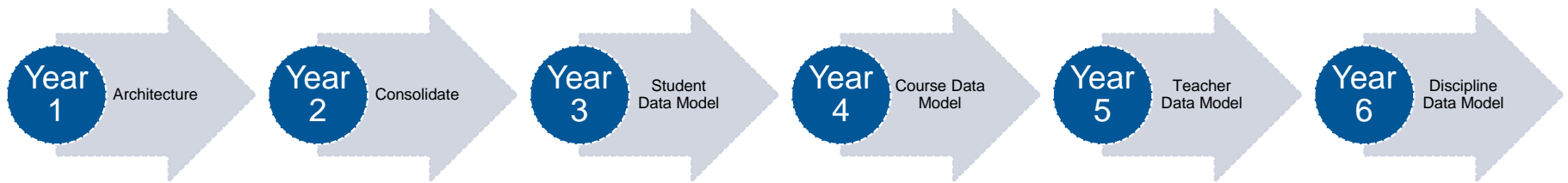
- Too large for a one year project
- Split into architecture and data model projects
- Add a year to each for consolidation
- Successful capital request for FY19(year 1)!



# Rethinking – Second Thoughts



- On second thought...
- Our business case is mostly in the architecture
- How to fund data model change?



- A lot of churn for small return
- A4L was rethinking as well...

# Move to SIF 3 A4L Perspective



**Adoption in SIF 2!**

Unproven

**Security Features!**

Best path forward??

**Giant Leap in Technology**

**CEDS**

new

**need buy in!**

Who drives selection?

**Scalability**

**Xpress Objects!**

mixed buy in

No Traction

Where's our niche?

**IEP!**

**modern infrastructure**

**Competing Standards**



# Introducing Unity



SIF Data Model  
Implementation  
Specification  
(North America) 2.8

SIF Data Model  
Implementation  
Specification  
(North America) 3.5  
incorporated into SIF 2.8

SIF Infrastructure  
Implementation  
Specification  
(Global) 3.2.1

- Existing Adopters
  - ❖ Reuse
  - ❖ Support
- New Adopters
  - ❖ Proven
  - ❖ Many Partners
- CEDS Alignment
- Adopted xPress API line
  - ❖ Roster
  - ❖ IEP
  - ❖ Grade Pass Back
- Global Infrastructure
- REST-based
  - ❖ Direct
  - ❖ Federated
  - ❖ Brokered

**UNITY**  
**Specification**

# Why Unity?



## Infrastructure Maturation:

- What? Use a modern, global infrastructure with the SIF Data Model
- Increased performance “on the wire” at all scale
- Due to “collections” or “groupings”
- Ability to only get the data that has changed – not all data or another “event”
- Can co-exist between 2x infrastructure and new Unity transport – incrementally bridging
- Value: Ease of usage and available tools

## CEDS Alignment:

- What? The tightest alignment to CEDS and USED’s work
- Use Case driven to address state reporting and interoperate with Generate
- Should make between standards work easier
- Value: Marketplace advantage to SEA

# Rethinking – Second Thoughts



## Privacy:

- *What?* PODS enabling meta-data for privacy work – a machine readable set of rules
- Addition made to infrastructure to know when what versions of PODS are being enforced (control traffic)

**Value: Streamlining implementation and delivery of contracted expectations**

## Transition Ease:

- *What?* The Unity Data Model picks up from 2x development done previously
- Will be able to move incrementally (one application at a time)
- Ref IDs are one to one mappings – supporting old and new styles

**Value: Easy maturation to a more powerful infrastructure while keeping your data layer investments intact**

Better business case!

# modern infrastructure No State Left Behind!

**IEP!**

Incremental Change!

new

**Scalability**

**CEDS**



Someone finally asked...

**Security**

**Features!**

Work with other  
Standards

great response... so far

**Giant Leap in Technology**

**Xpress Objects!**

**Proven Use Cases** common path forward

MA changing infrastructure now

# Thank You!

