



Learning Analytics, Digital Education, and Innovation at U-M

- Launching DEI
- Unizin Update
- Emerging Policy framework for LA



Part I: Launching Digital Education and Innovation



Vision:

To redefine public residential education at a 21st century research university through the creative use of technology and targeted experimentation with digital programs in order to enable engaged, personalized and lifelong learning for the entire Michigan community.



Organized around three strategic pillars

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To redefine public residential education at a 21st century research university through the creative use of technology and targeted experimentation with digital programs in order to enable engaged, personalized and lifelong learning for the entire Michigan community.

Curricular Innovation



Leadership in Learning Analytics



Digital Infrastructure At Scale





“Toward Coherence”

Curricular Innovation

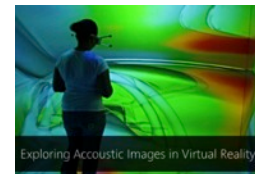


Certificate in the Foundations of Public Health

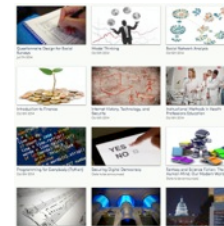
Programs and Certificates



Flipped Courses and Programs



Maker Spaces for Residential Learners



MOOCs and SPOCs

Leadership in Analytics



Personalization and Predictive Analytics

Student Explorer

Advising/early warning



Collaboration and Prototyping

gradecraft

Instructional Design and Gamification

Digital Infrastructure At Scale



Networks



Learning Management Systems



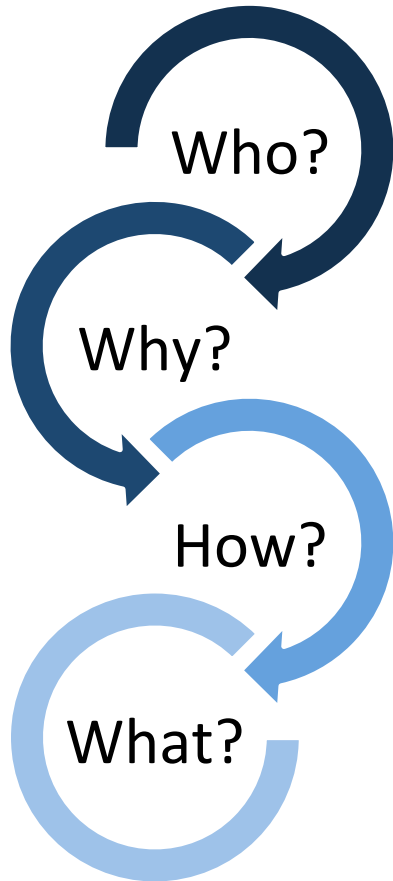
Digital Libraries



Digital Ecosystems



Elevator Pitch



U-M residential community and beyond

To redefine public residential education at a 21st century research university ... in order to enable engaged, personalized and lifelong learning ...

Curricular Innovation

Learning Analytics

Digital Infrastructure at Scale

Venture Fund

Consulting Services

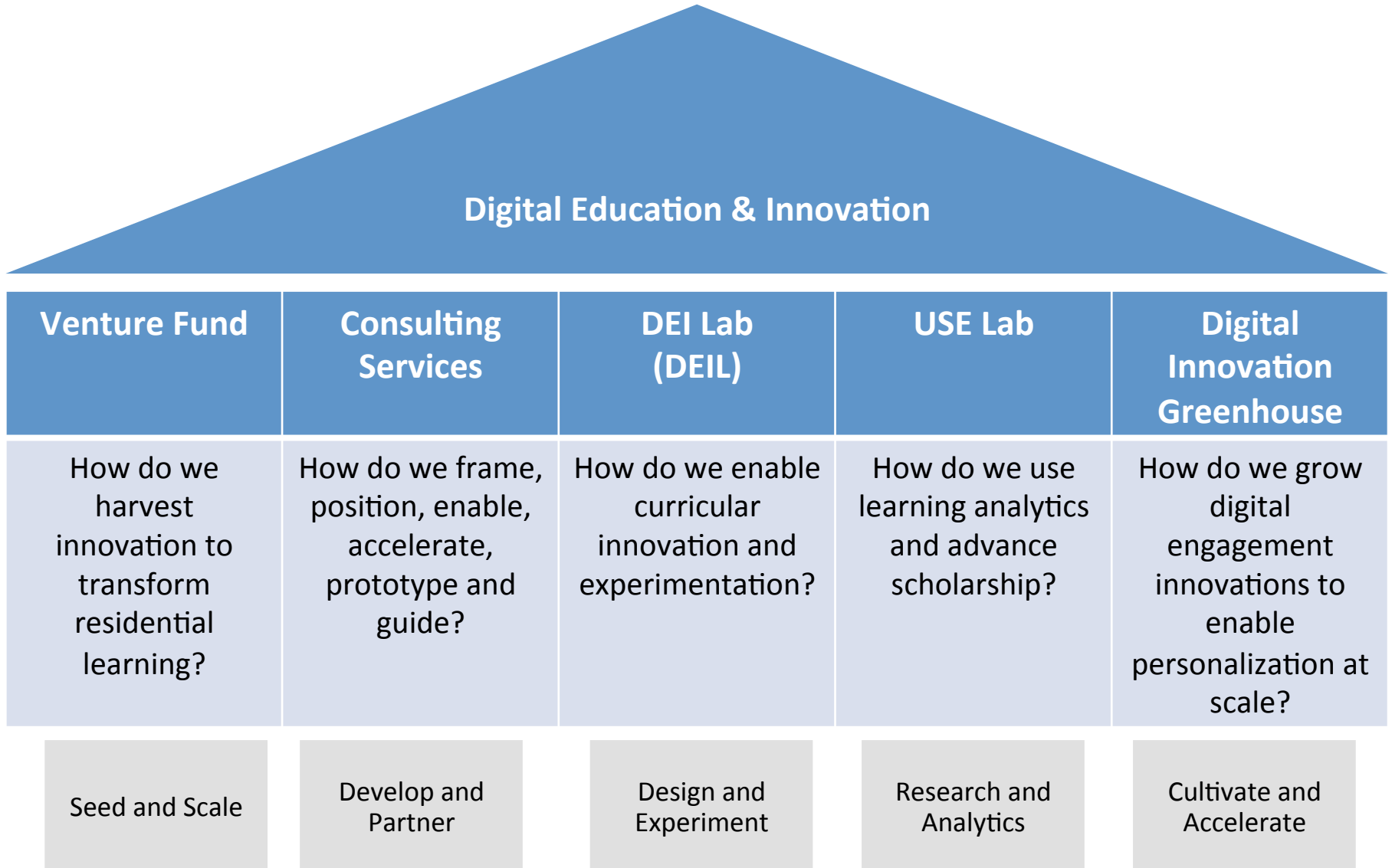
DEI Lab

USE Lab

Digital Innovation Greenhouse



We've conceptualized a model that translates our vision to scholarly and practical operations...





Part II: Unizin Update



Unizin

A University/Member-Owned Service
Aimed at Controlling the Emerging
Digital Ecosystem



Content

- Writing
- Audio/Video/Photo
- Problem sets
- Talks
- Simulations
- Data

Fodder

Applications

- Lectures/Tests
- Labs
- Seminars
- Projects
- Essays
- Discussion

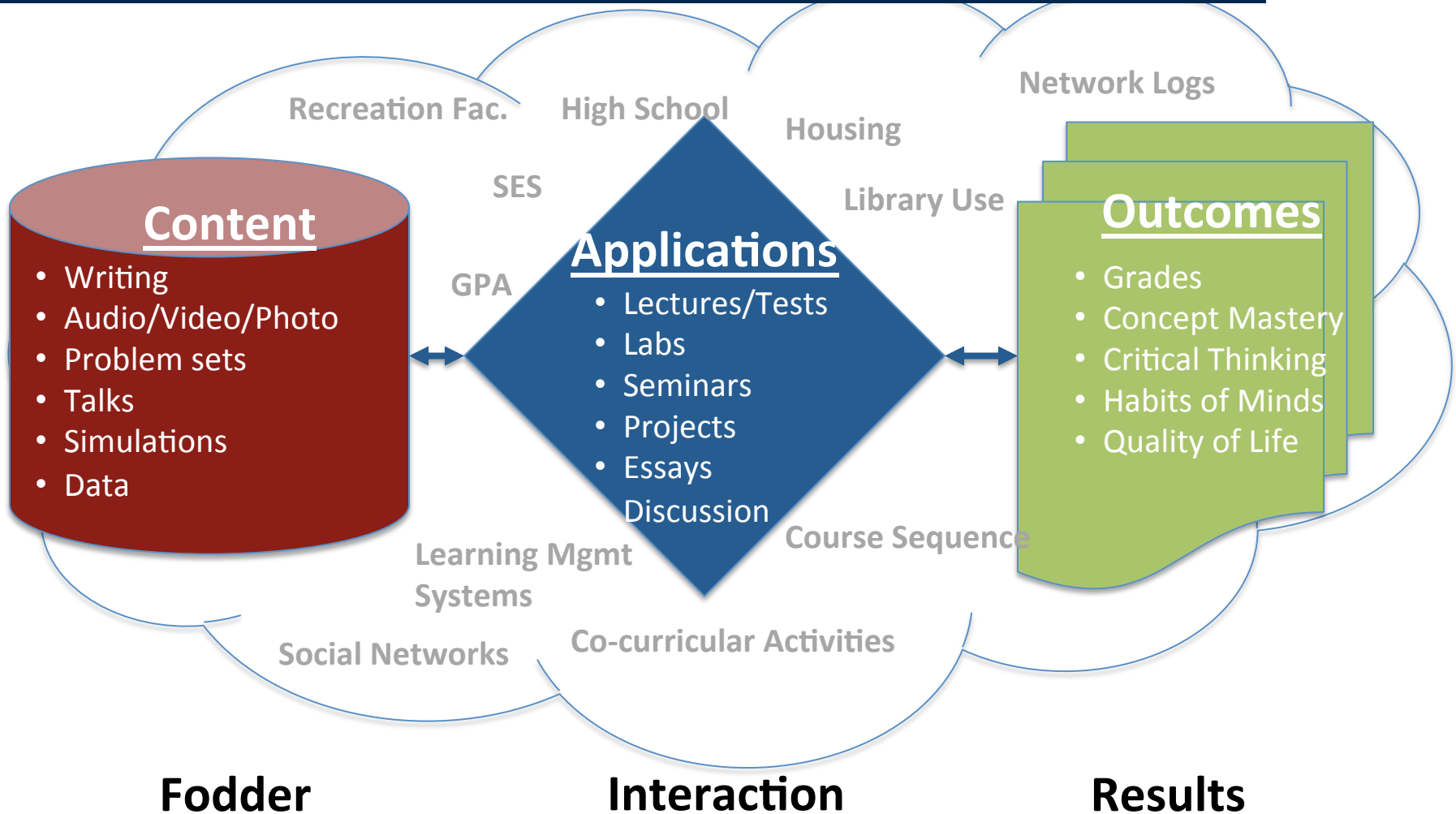
Interaction

Outcomes

- Grades
- Concept Mastery
- Critical Thinking
- Habits of Minds
- Quality of Life

Results

Teaching/Learning Ecosystem in the Traditional Physical Environment



Teaching/Learning Ecosystem in a Digitally Mediated World



Increasingly, digital ecosystems are infrastructure—
more like common gauge rails than differentiating
features of a university.



The Challenge:
Who will control the emerging digital ecosystem?



Blackboard



PEARSON



canvas





Enter Unizin

A University/Member-Owned Service Aimed at Controlling the Emerging Digital Ecosystem that reflect three principles:

- Digital content, software platforms, and data analytics (collectively, “*Service*”) are essential and strategic capabilities that enable universities’ core mission of education.
- We have a vested interest in staying in control of our data, our students, our content, and our reputation/brand.
- Directing these integrated capabilities as an *academy-owned set of loosely coupled services* is an important means to protect universities’ interests over time. Ownership affords control.



Unizin Strategy

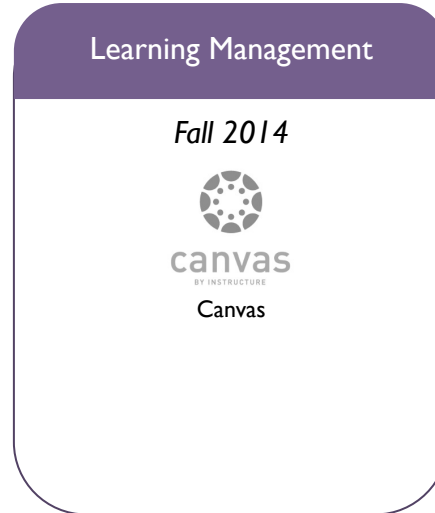
A University/Member-Owned Service Aimed at Controlling the Emerging Digital Ecosystem

Strategy:

- Approach technology platform decisions as strategic decision, not just feature set comparisons.
- Approach control of digital ecosystem like we approached control of the network ecosystem (Leverage the lessons/successes we've had from Internet2)
- Favor (demand) loosely coupled ecosystem
- Take advantage of scale and collaboration—aggregate demand and requirements
- Acquire services/technology on favorable terms. Build only where you must. Invest development in pushing standards and creating reference implementations.
- Unizin is about synchronizing capital and demands, not about community development.



Start with the LMS...

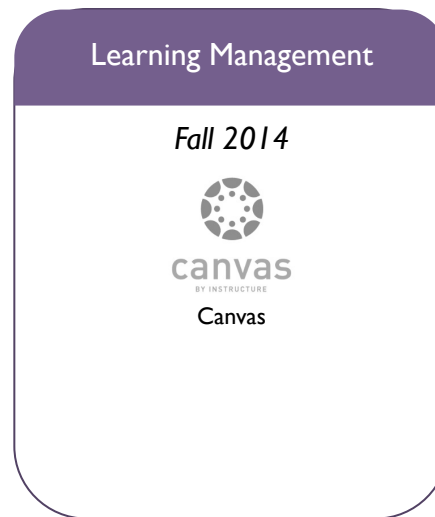


Unizin selected Instructure's Canvas LMS as the *first* service. What was attractive about Canvas?

- Largely open-source. Where it isn't, they will provide source code in the event that we part ways.
- Aggressively pushing standards-based approaches to tools and data (e.g., LTI, common cartridge, caliper). If you want LTI apps, they have the first store.
- Currently best in class LMS judging by adoption rates

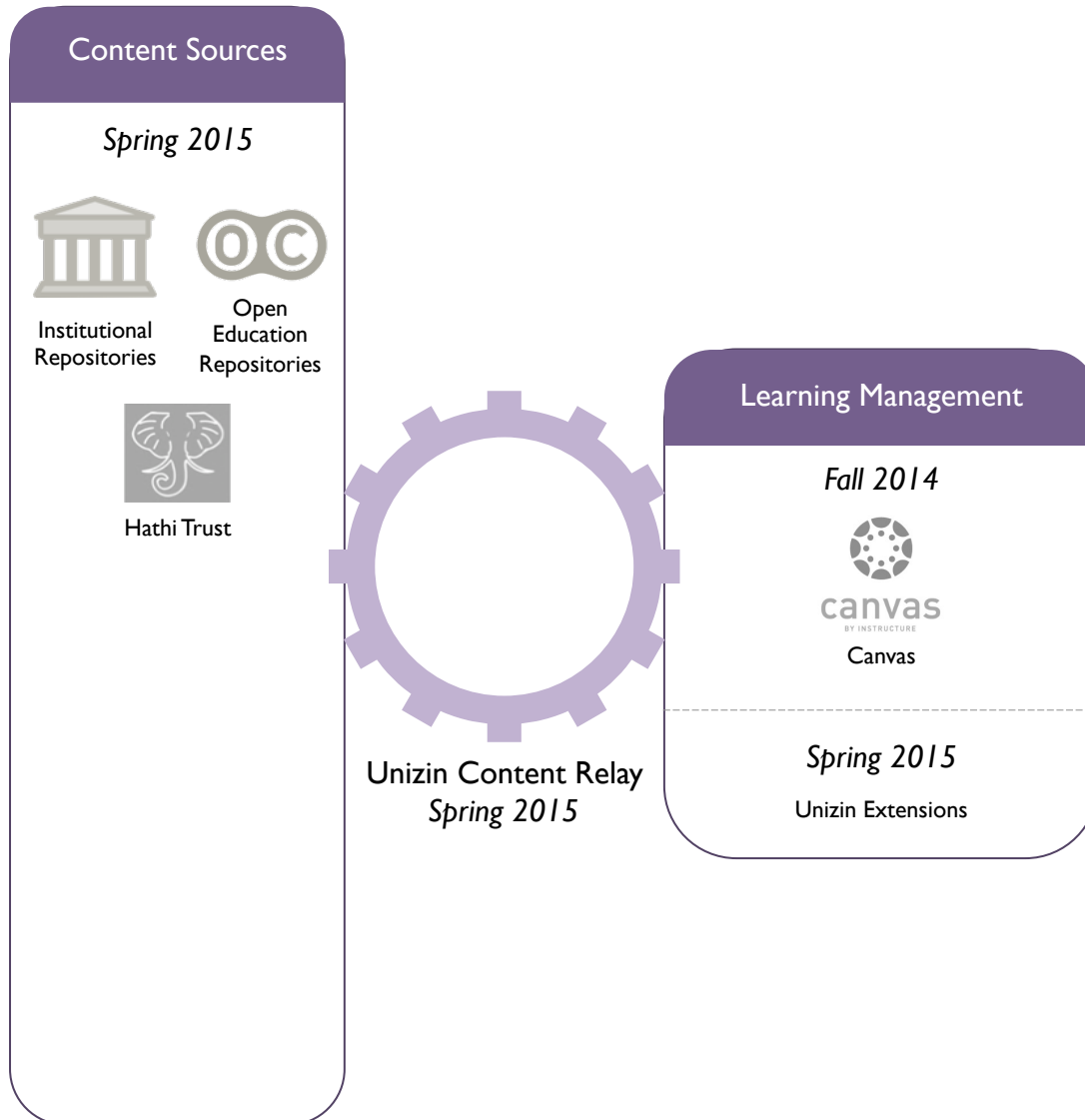


But Unizin has to be much more than LMS—it's about the digital ecosystem that links content, applications, and data.





Unizin Roadmap through Spring 2015





Unizin Roadmap through Fall 2015

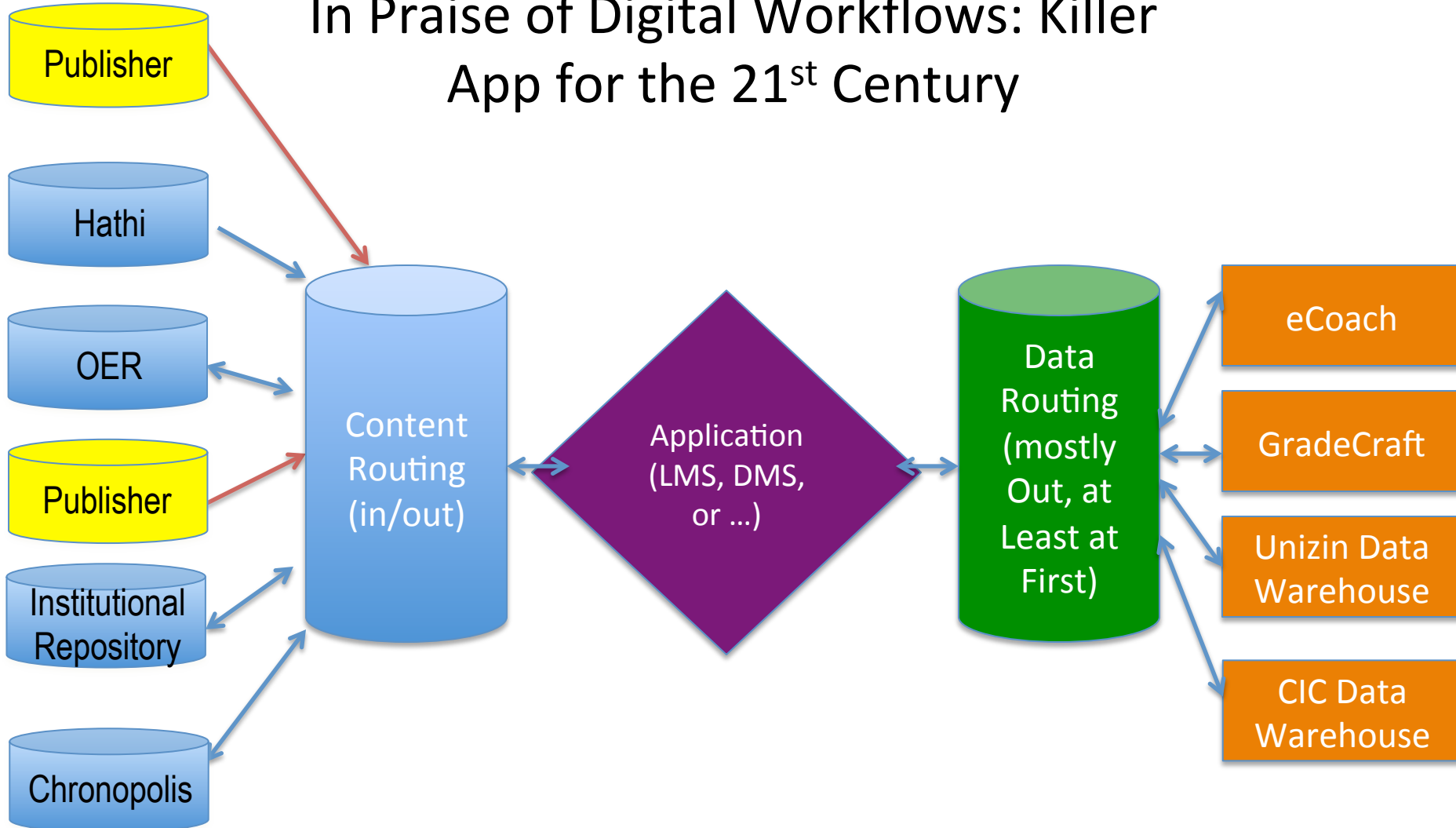




In Praise of Digital Workflows: Killer App for the 21st Century

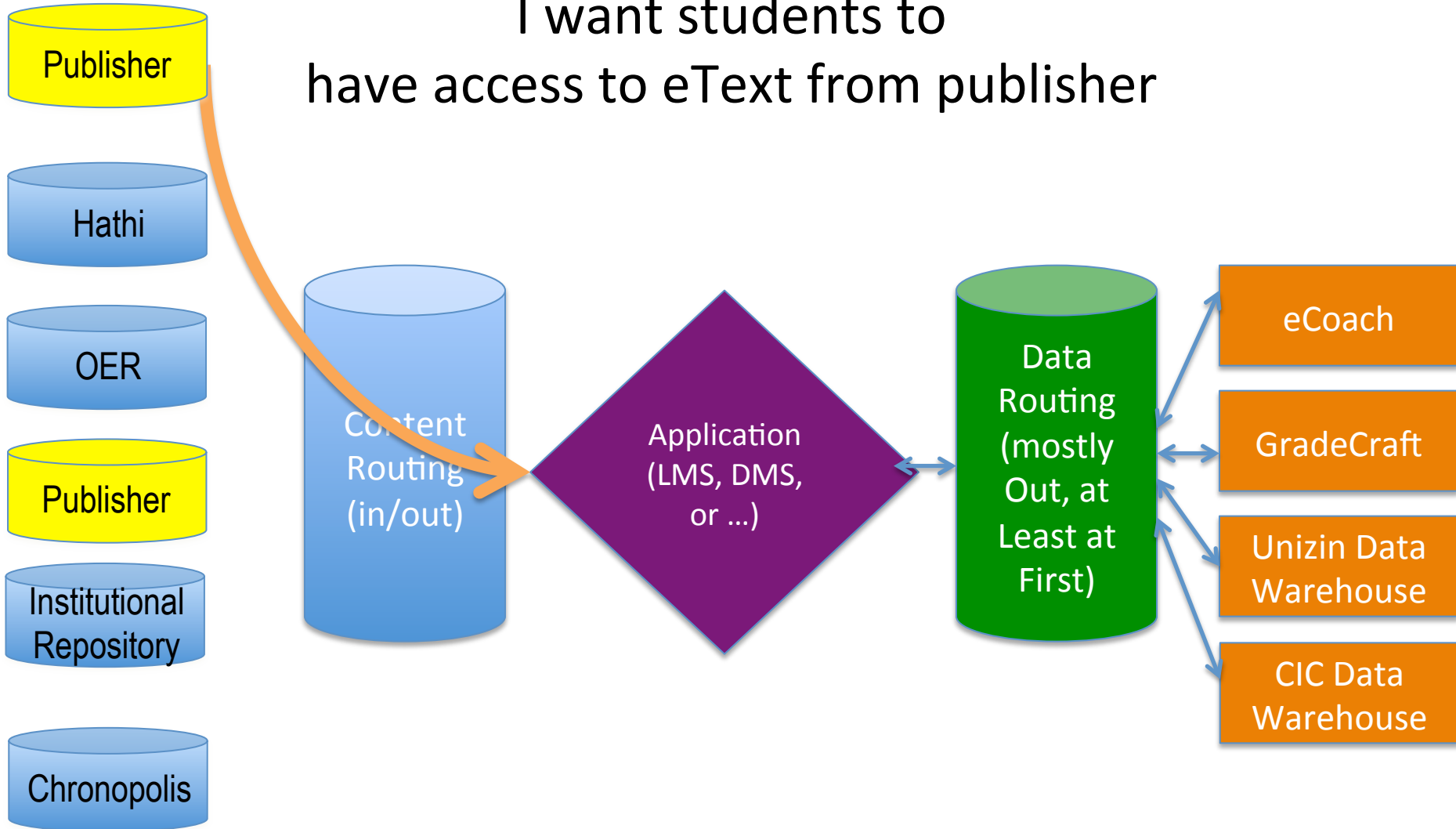


In Praise of Digital Workflows: Killer App for the 21st Century



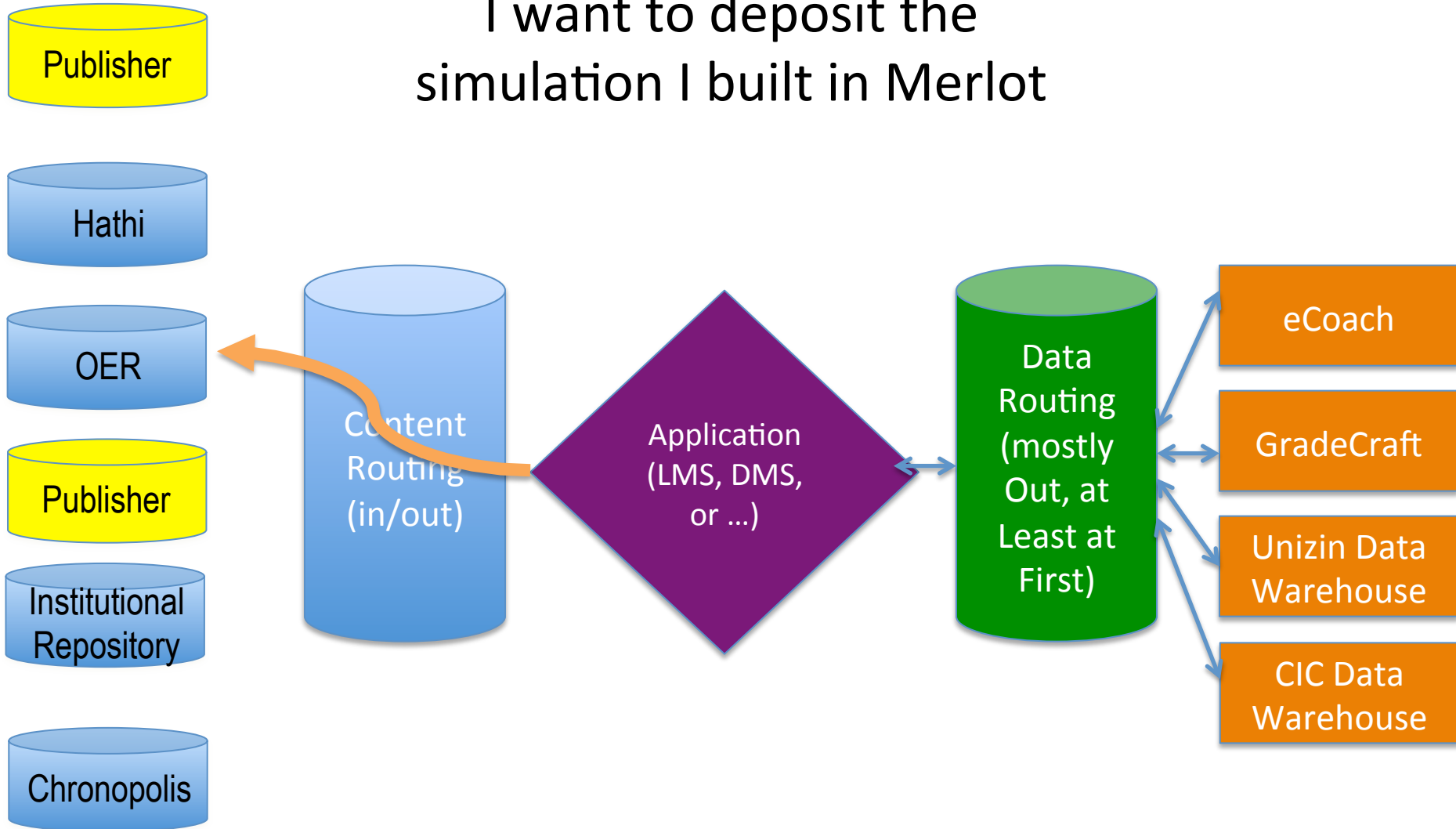


I want students to have access to eText from publisher



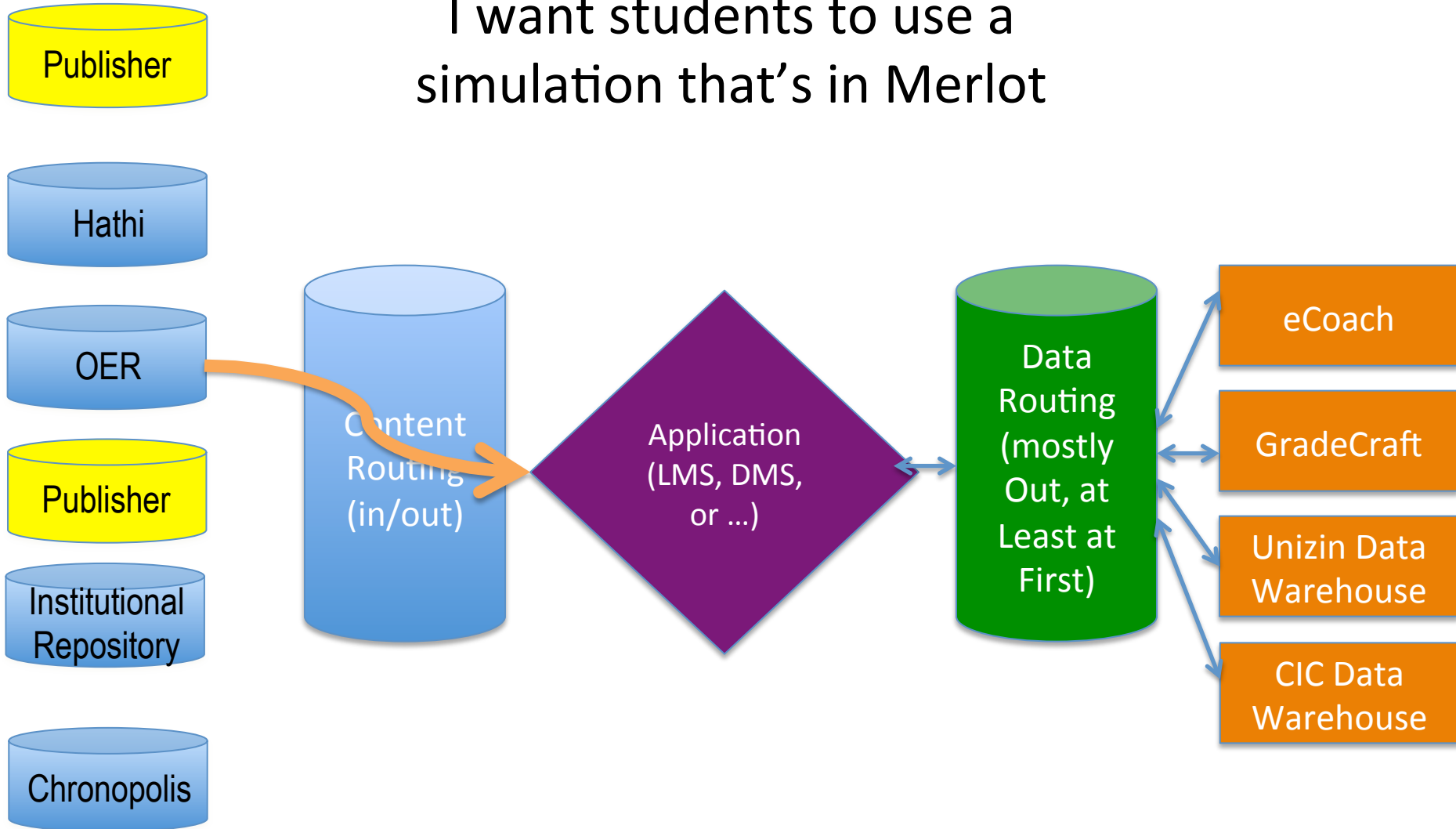


I want to deposit the simulation I built in Merlot



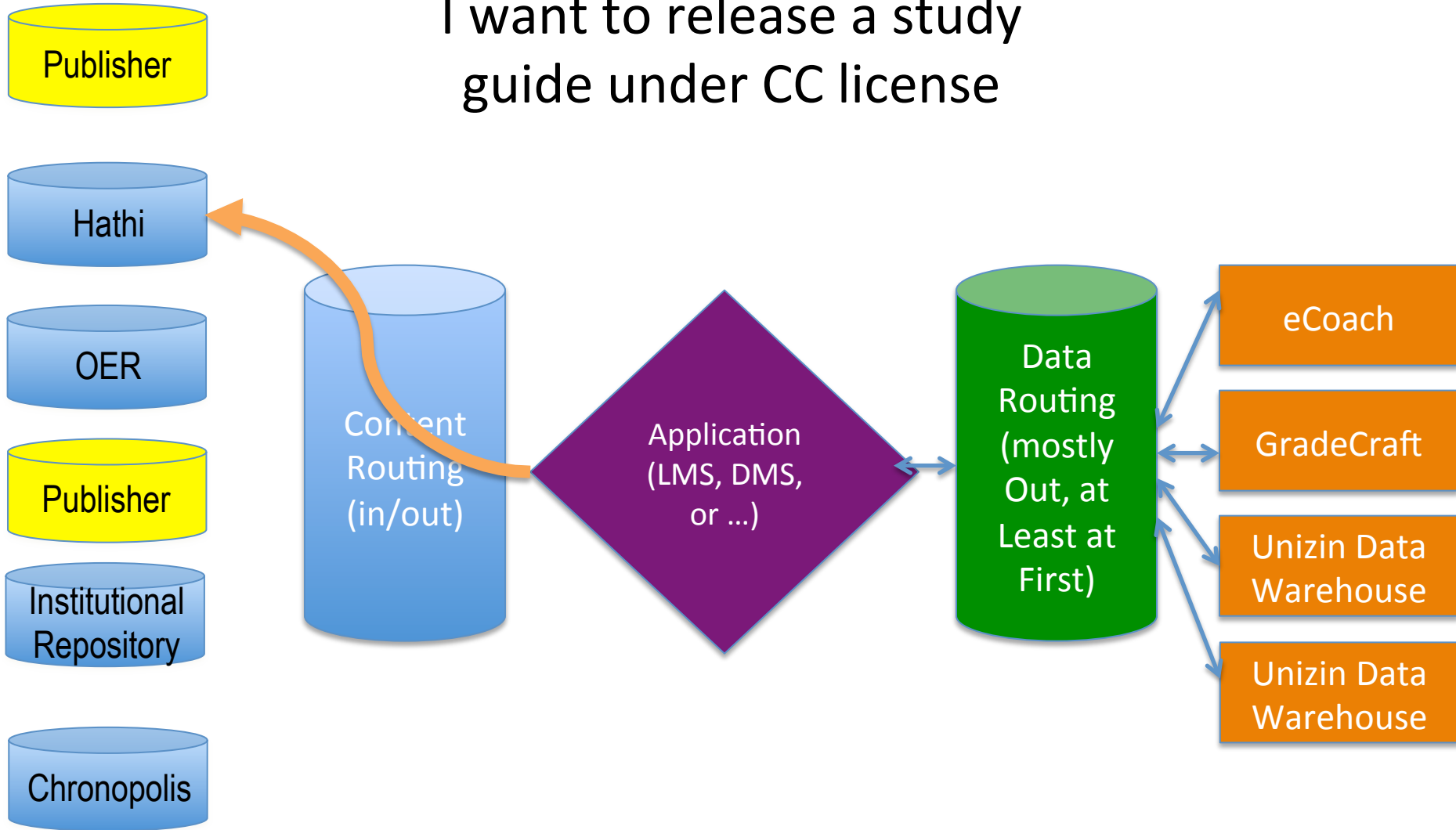


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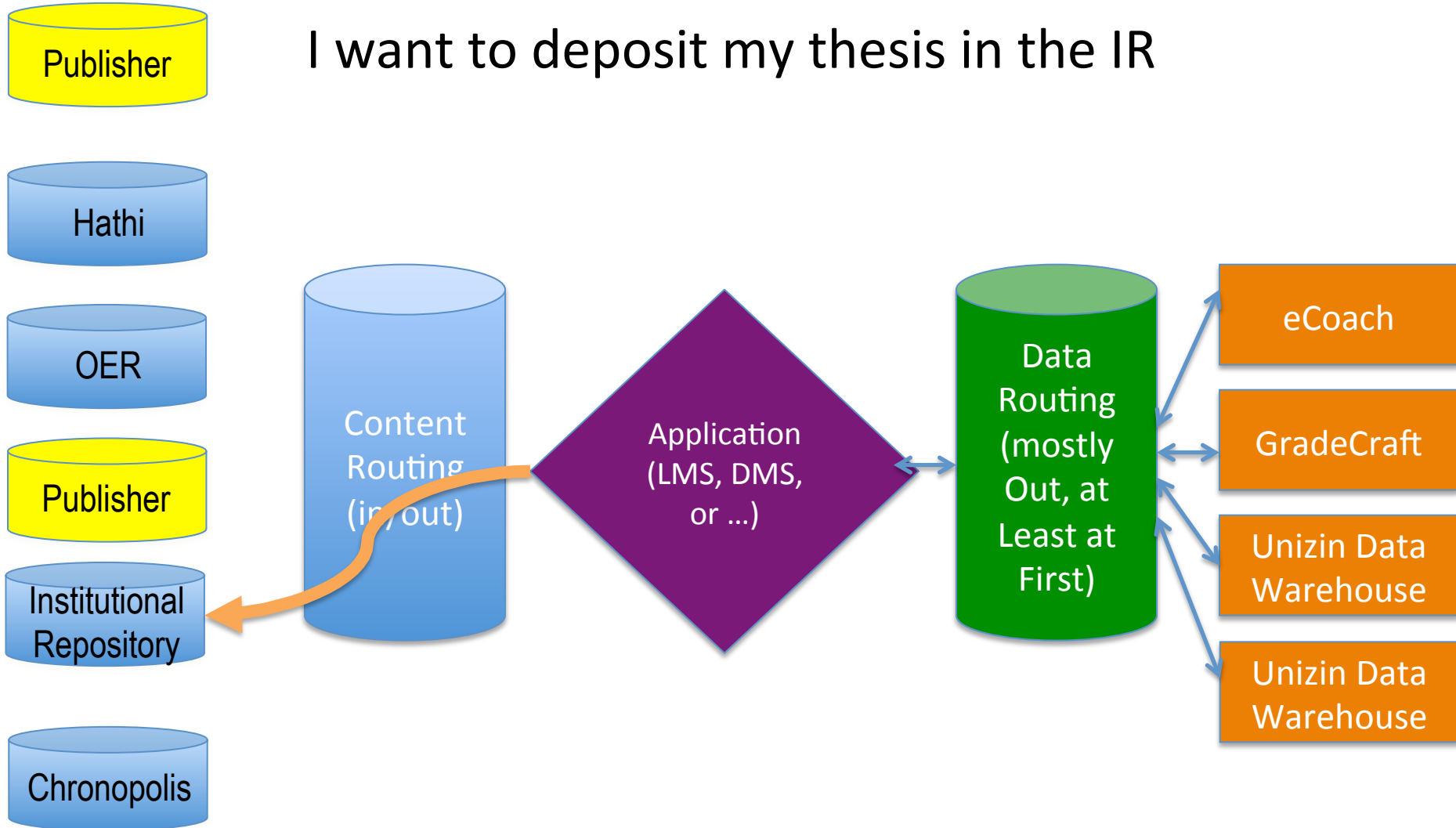


I want to release a study guide under CC license



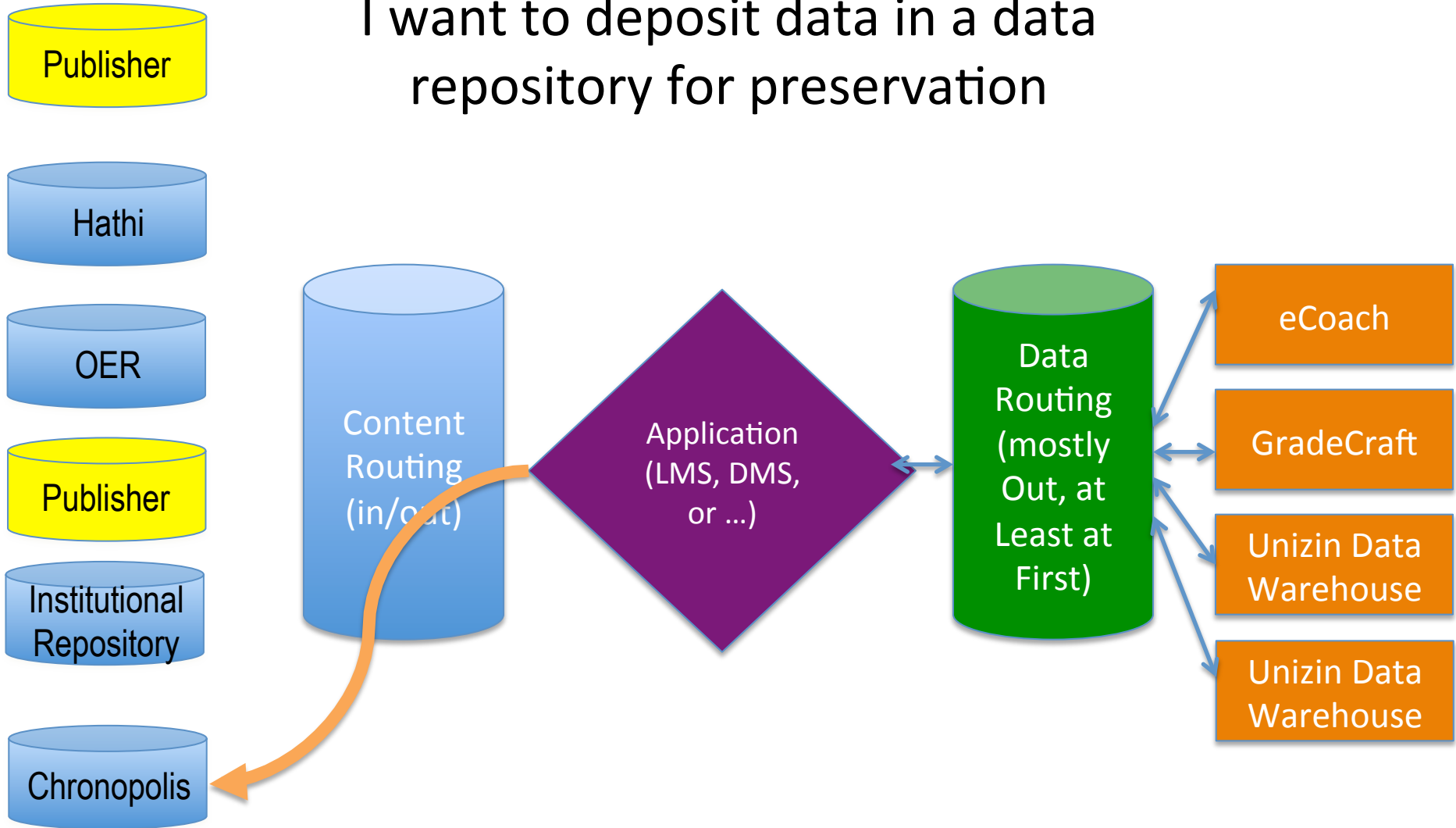


I want to deposit my thesis in the IR





I want to deposit data in a data repository for preservation





And then there's analytic workflows

