

# APTrust Planning

June 19, 2012

# APTrust Givens

1. Preservation repository for aggregated content; use of Fedora, Hydra, DuraCloud OS and CloudSync OS technologies
2. DPN replicating node; use of applicable OS technologies
3. Access services:
  1. Phase 1 – administrative access only
  2. Phase 1+ - richer access services determined by APTrust partner community

# Aggregate Preservation Repository

1. Accepts all content types
2. Accepts Fedora and non-Fedora content
3. Supports basic ingest & retrieval from multiple institutions
4. Backed up (geographic redundancy)
5. Includes audit mechanisms (goal of trusted repository status in future)
6. “Dusk” archive – administrative access by each institution, potential for end-user access in future
7. Ability to delete content not bound for DPN

# DPN replicating node

1. Uses Fedora, DuraCloud OS and CloudSync OS technologies (architectural differentiation from other nodes)
2. Interaction with other DPN nodes (transport mechanisms developed by DPN project)
3. “Dark” archive
4. Roach motel: no deletion

# Access Services

## Phase I

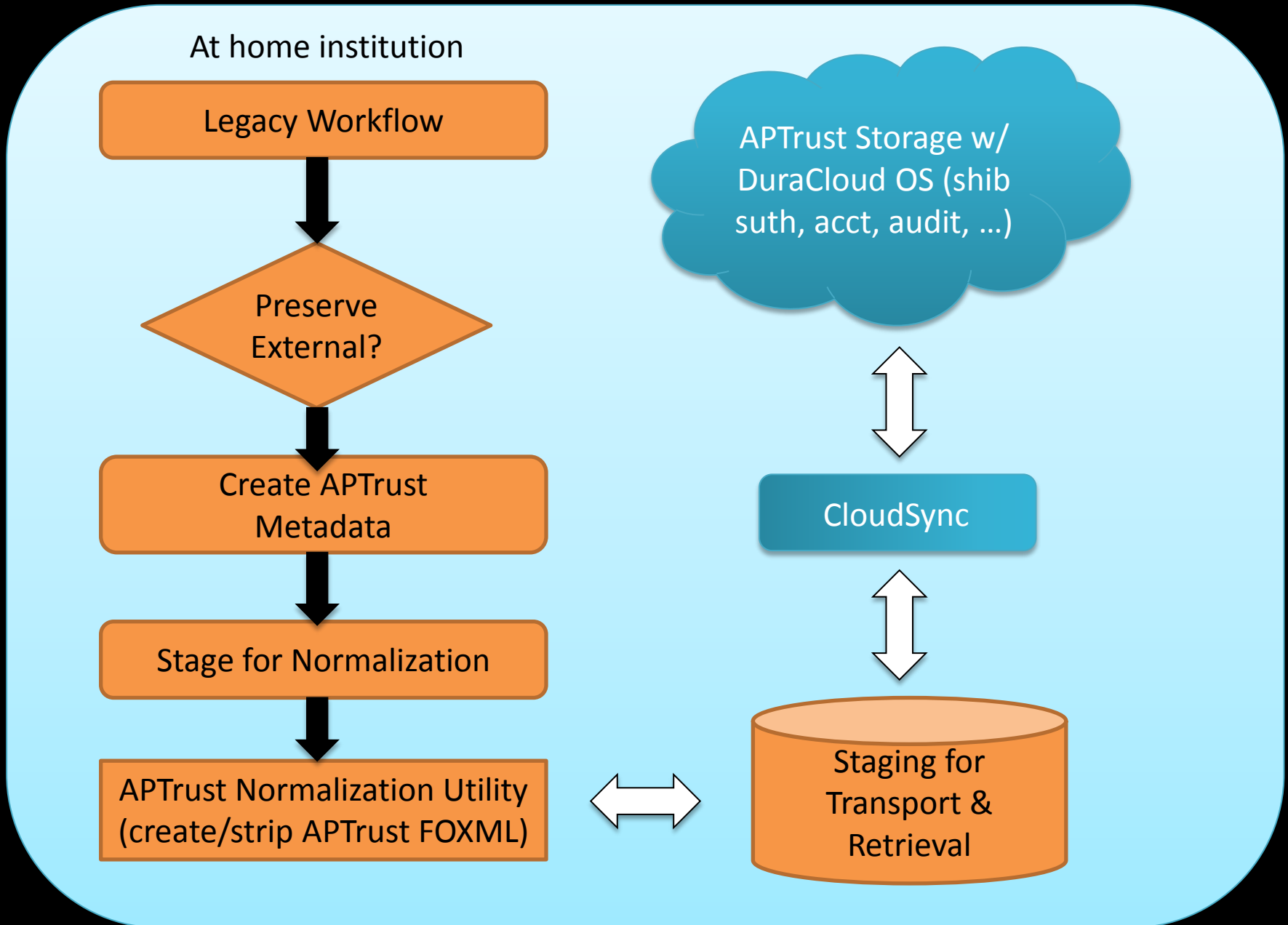
- “stuff in, stuff out” (mime-typed content)
- Ingest & retrieval, no end-user access
- Audit, periodic and on demand
- Permit future development of more advanced access services

# Architecture Guidelines

- Leverage production services
- Minimize modifications and/or new development in the first 18 months
- Align implementation with APT Rust Partner Priorities
- Minimize project roadmap dependencies wherever possible (e.g. Hydra, Fedora, potential Cloud providers)

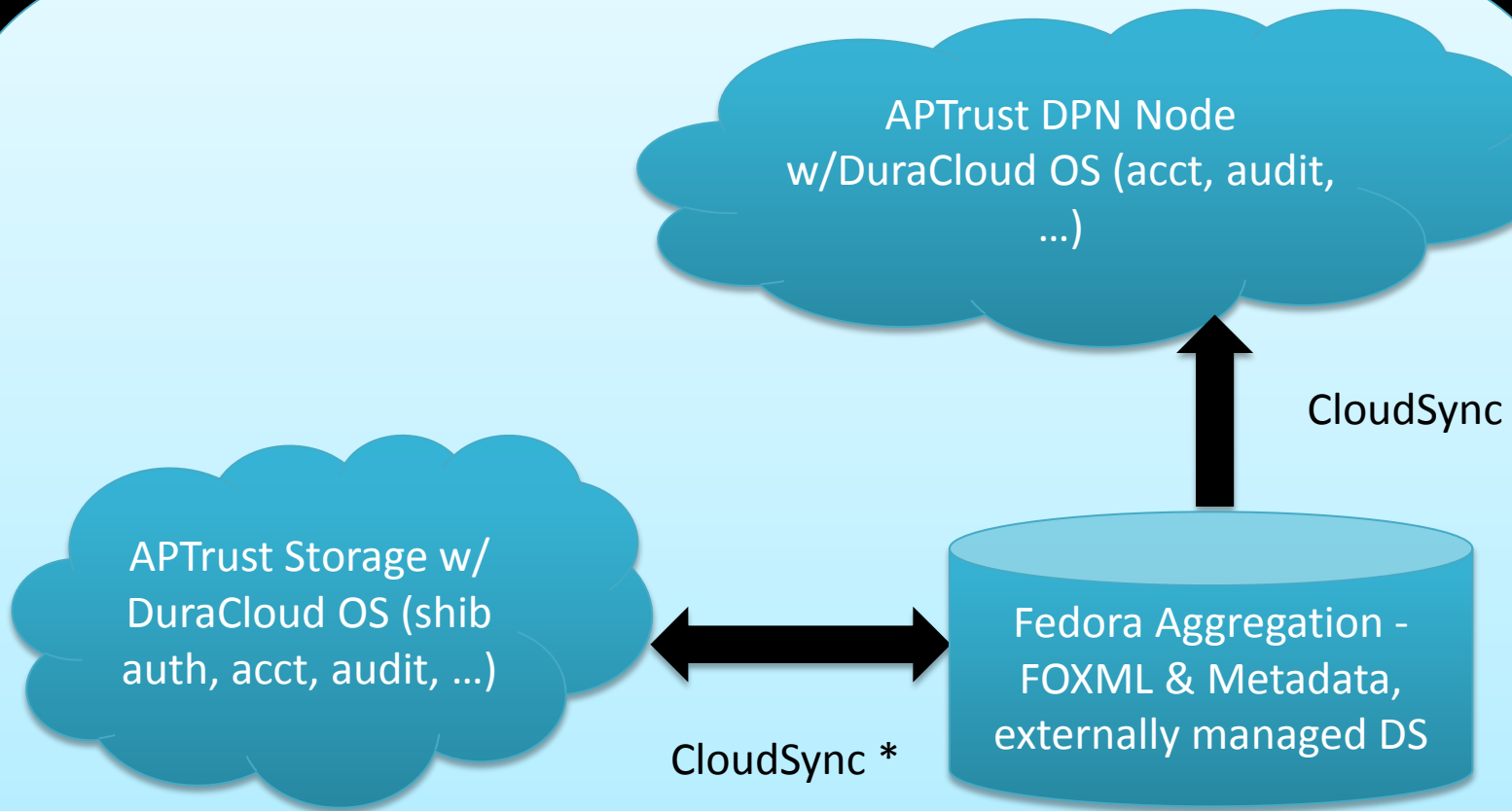
# Goals for development sessions

- Review architecture plan
- Test assumptions about technologies and make necessary modifications to plan
- Identify development work and update project plan
- Set milestones for deliverables
- Develop statement of work and timelines
- Issue contract for DuraSpace work



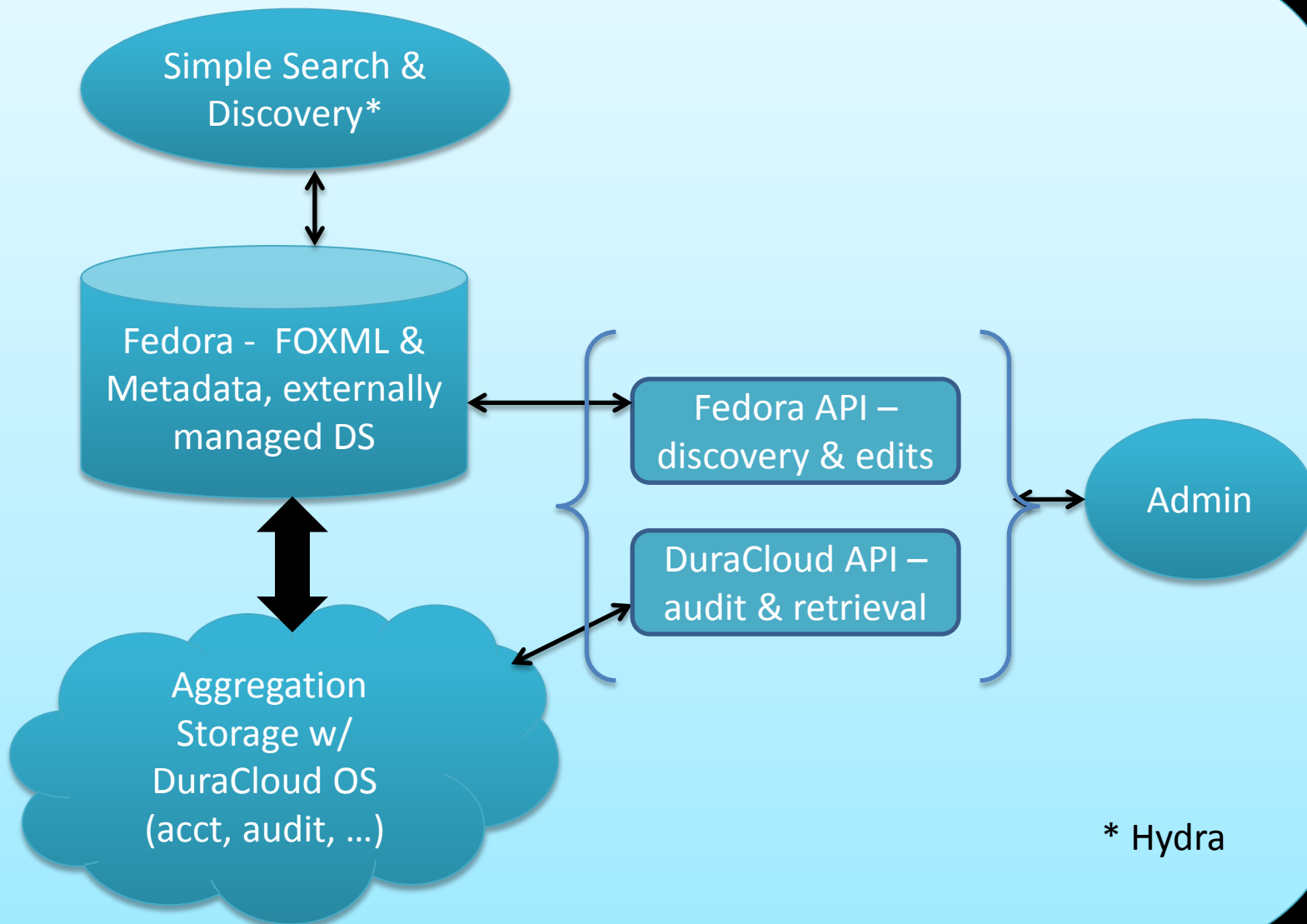


# APTrust



\* work needed to ingest into Fedora and backup/sync into cloud

# Interfaces



# Rough Timeline

Date	Milestone
July	Test content prepared
July	Institutional ingest workflow developed
July	DuraCloud OS set up (on purchased cloud)
August	Fedora repository set up (on purchased cloud)
August	CloudSync installed and tested
September	Content run through system & tested
Sept 30	Demo w/out admin interface ready
Oct-Nov	Develop administrative interface
Dec 31	Demo w/ admin interface ready

# Stuff to be worked out

- Local cloud infrastructure (will begin on Amazon RackSpace)
- Policies governing services (e.g. versioning)
- Business model
- Size limits – especially for data & video
- Replicating node implementation