



# *Beyond Beta - Organizational Implementation of ArcGIS Spatial Apps*

By Kerry Lyste



STILLAGUAMISH TRIBE OF INDIANS



# Tribal Geography



## Stillaguamish Tribal Homepage



- Accounting Department
- Auto Repair
- BackSeatz Plant Nursery
- Behavioral Health Programs
- Buffalo Program
- Courts and Justice
- Cultural Resources
- Daycare
- Dental Clinic
- Economic Corp (STECO)
- Education
- Elders Program
- Enrollment
- Facilities
- Family Resources
- Festival of the River
- Gaming Commission
- Hatchery
- Housing
- Human Resources
- ICW (Indian Child Welfare)
- Information Technology
- Island Crossing Counseling Services
- Legal Department
- Massage Clinic
- Natural Resources
- North Intertribal Vocational Rehab Program
- Planning Department
- Police Department
- River Rock Smoke Shop
- Tax Commission/Business Licenses
- Tobacco Education
- Transportation
- Wellness Clinic



## Departments at the Stillaguamish Tribe



# Field Data from my workflow – how can this be incorporated in a Cloud-based App?

## An Example of a Project Review Site

The collage features several elements:

- Top left: A yellow excavator on a road construction site.
- Top center: A close-up of a concrete structure, possibly a bridge pier.
- Top right: A handwritten checklist on a form. The form includes fields for 'Date' (07-20-12) and 'Site' (Slag Pit). The checklist items are:
  1. Are all safety signs posted in area? *Yes*
  2. Are all workers wearing safety gear? *Yes*
  3. Is the site secure? *Yes*
  4. Are all materials properly stored? *Yes*
  5. Are all workers properly trained? *Yes*
  6. Are all workers properly supervised? *Yes*
  7. Are all workers properly instructed? *Yes*
  8. Are all workers properly notified? *Yes*
  9. Are all workers properly documented? *Yes*
  10. Are all workers properly trained? *Yes*
  11. Are all workers properly supervised? *Yes*
  12. Are all workers properly instructed? *Yes*
  13. Are all workers properly notified? *Yes*
  14. Are all workers properly documented? *Yes*
- Middle left: A white pickup truck parked on a road.
- Middle right: A handwritten note on a piece of paper, possibly a field log or report.
- Bottom left: A technical drawing of a fish, likely a salmon, with a small inset showing a close-up of a fish's head.
- Bottom center: A road construction site with a yellow excavator.
- Bottom right: A view of a bridge or overpass structure.



# Cultural Resources – Sacred Sites and Traditional Cultural Properties

## Stillaguamish Sacred Sites



# Stillaguamish Tribal Areas



SR 530  
Slide



Sources: EIT Design, RWTEQ, Topocon, Informa, Arcmap, P.Corp., DEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri, DeLorme, Swisstopo, and the GIS User Community

## The Organization View:

Like the fish... technology does not stand still. New challenges will arrive... why should we upgrade? Is optimism and mettle a fatal flaw or strength?

# How to Build an ArcGIS Server

(and other things you need to know...)



STILLAGUAMISH TRIBE OF INDIANS

Kerry Lyste  
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## Why Go Online With Cloud-based Data Resources?

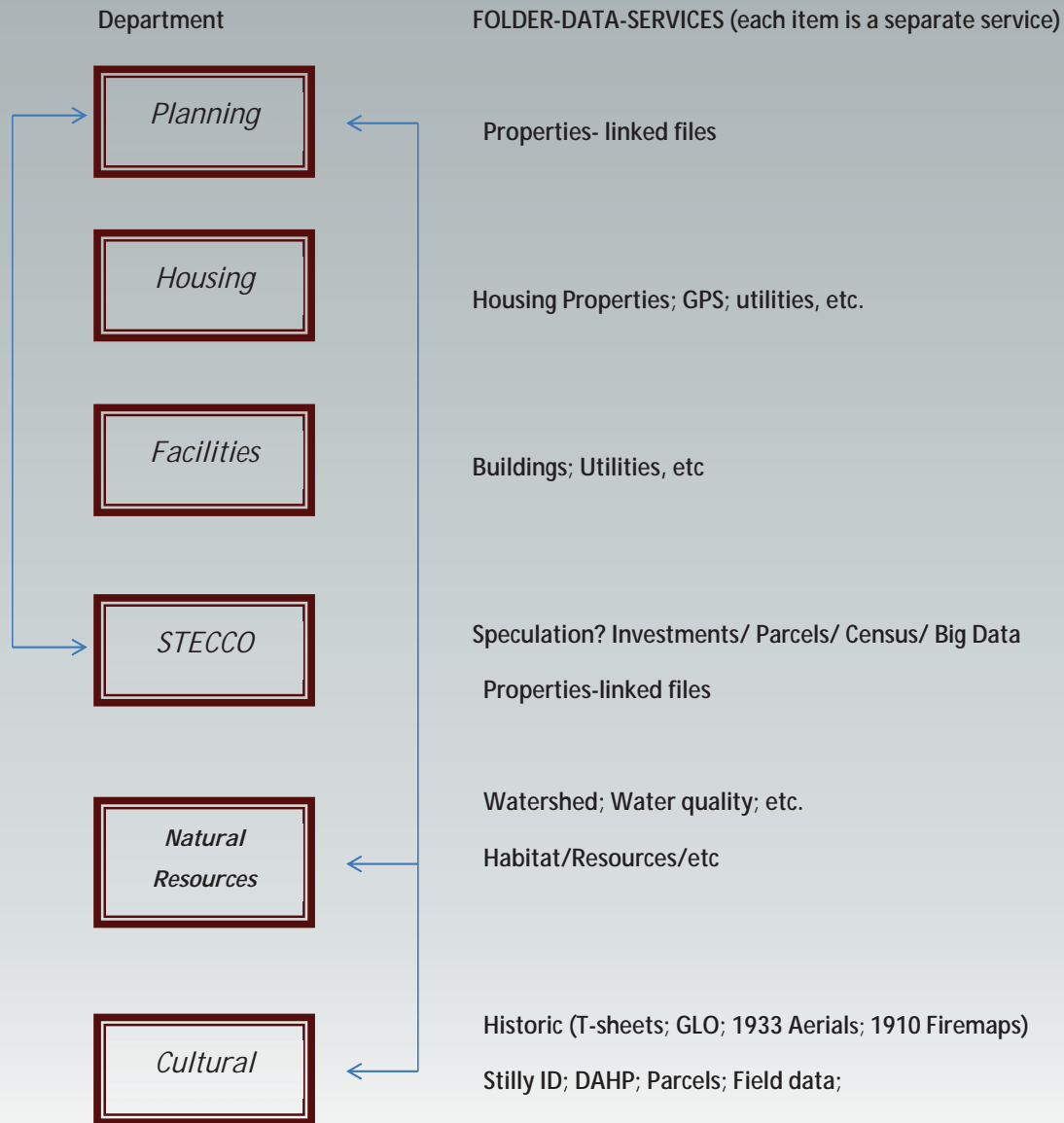
- Leadership (The Board of Directors) would like to have a comprehensive source of information on properties.
- Technology is intoxicating, and it brings people and departments together.
- Efficiency.....A reluctant acknowledgment: it really helps with workflow compared to desktop (ex: [DAH P WISSARD](#)).
- We all have products we have developed through the years that we need to share.
- Economic Development – how can my organization maximize potential?

## What Are Some Potential Roadblocks to Successful Implementation?

- Human Resources – how much can be done with the current support staff?
- IT – is the expertise and inter-departmental cooperation in place to insure smooth transitions in upgrades and initial implementation?
- Security – is leadership comfortable with your security model? Are you comfortable with it? What can be improved?
- How much ArcGIS Online should you use? How much will the credits cost?
- What will be involved to upgrade server platforms and GIS software?
- Scope Creep – will growth out-strip your ability to support it? (ex: Mobile Apps; Collector)



## Intranet Mapping Services Guide





## What are the Keys to Successful Implementation?

- A foundation to build from. Take inventory and make decisions now that will allow the tribe to grow over the next 10 years. Build the Geodatabase/s as best you can out of cast iron.
- The server foundation – make sure you have worked with IT to make the right decisions that provide stake holding and a solid foundation that will allow the organization to grow as well as maintain the infrastructure. Make sure that you have enough knowledge or that you can bring in the consultants that you need.
- User Needs Assessment – if you can not do this invest in having someone come in and do it for you. Inventory each department and find out what kind of services and supporting data is necessary to accomplish measureable objectives that can be accomplished at incremental mileposts.
- Training – bring in or in-house train key employees in each department that can perform periodic updates on data as well as assess geospatial needs in their programs.

