



GEOweb: The District of North Vancouver's GIS Website

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Introductions

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Agenda

- The District of North Vancouver
- GEOweb
- Live Demonstration
- Development Strategy
- Technology
- What's Next?

The District of North Vancouver

- Suburb of Vancouver, British Columbia
- 85,238 citizens
- GIS Department of 7 staff
- 15 years invested in GIS technology
- Mature system:
 - 400+ layers
 - Automated systems
 - Asset Management



GEOweb: Overview

- *GEOweb* is the name of our public GIS website
- Used ArcIMS technology
- We went live in 2001
 - Property Information Explorer
 - Parks Online
 - legal plans
 - engineering drawings
- 150,000 visitors in 2008

GEOweb: Limitations

- GEOweb was in need of an overhaul
- Older GIS web-mapping technology
- Outdated design
- Needed to get more of our GIS out to the public

GEOweb: Vision

- Adopt latest GIS web-mapping technology
- More simple yet focussed applications
- Intuitive and Minimalist design
- Gov 2.0 principles
- Open Data | Free Maps | Rich Applications

Live Demonstration

- Maps
- Data
- Legal Plans
- Engineering Drawings

Maps **NEW**

- Property Series
- Ownership Series
- Zoning Series
- View the Complete Collection of Maps

Data **NEW**

- Download free Data and build your own GIS
- Huge selection to choose from

Legal Plans

Enter Plan Number:

- Legal Plan Viewer
- Don't know the plan number for your property? Use the Property Info Explorer

Engineering Drawings

- Engineering Drawing Viewer

Welcome to GeoWeb North Van GIS

InterACTIVE Maps



Property Information Explorer

Enter your address and retrieve a map of your property.



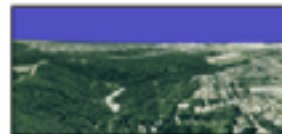
Parks OnLine

Browse and search parks in the District. See what each park has to offer.

Jump Station

- DNV Web Page
- Services
- Support
- Student Projects
- Industry News

MultiMedia GIS



3D Fly Movies



North Vancouver Map



Satellite Image Gallery



Our Geography Movie

GIS in our Community

- GIS plays a large role at the District of North Vancouver. We offer many services to the community.

Support

- GeoTools support and resources.
 - GeoTools Manual
 - Updates
 - Tips
 - Training
- The DNV CAD Standards specifications.
- Technical White Papers exploring GIS issues in detail.
- Links to popular GIS and Remote Sensing sites.

Inside our GIS

- Take a look inside our GIS and learn about our system and the staff who maintain it.

About Us

- Need to contact us?
- Learn more about us.
- The GeoWeb development team.

Feedback

- Feedback Form
- Contact the Webmaster.

Development Strategy

- Originally we started to develop on the WebADF framework
- Saw the new Flex API at ESRI San Diego - Aug 2008
- Came back to North Vancouver and stopped all development on WebADF – adopted Flex

Development Strategy

- Worked with ESRI Canada in Dec 2008
- Took the Site Starter and augmented it
- How far could we “bend the girders”?
- Goal was to try to replicate our existing Property Information Explorer

Development Strategy

- Once we received the ESRI prototype we began to reverse engineer it.
- In-house development
- Tried new things, rewrote the basic widgets
- Learned the “language of Flex”

Development Strategy

- Formally created the development team
 - 1 Designer
 - 1 Web Developer
 - 1 Application Developer
- Used an Agile development strategy
 - Develop a new tool each week
 - Review it as a team
 - Make modifications where needed

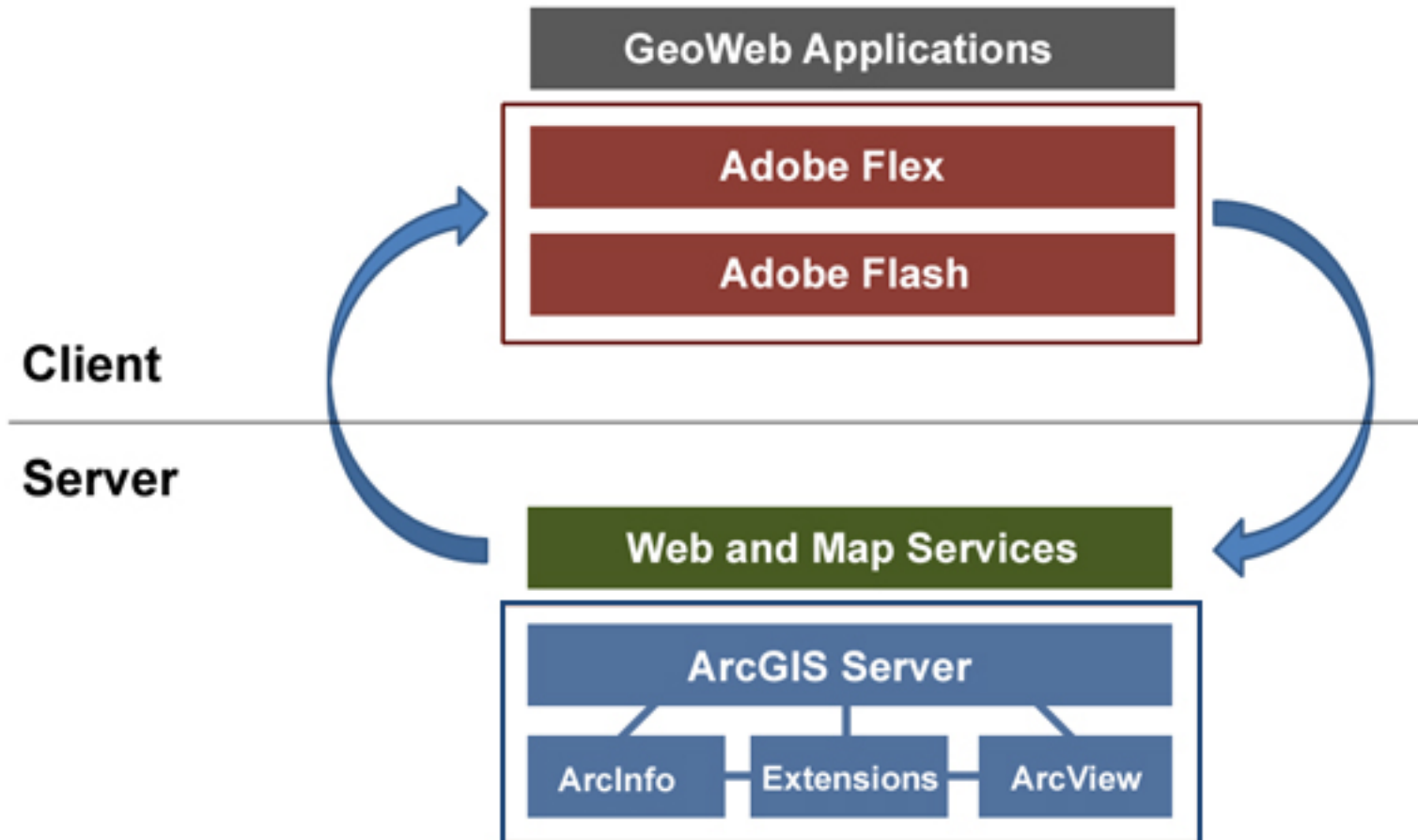
Development Strategy

- Designed the site and apps in Photoshop
- Tried many skins
- Challenge to tie the apps together but allow uniqueness
- Adopted concepts from:
 - E. Tufte – “Envisioning Information”
 - J. Tidwell – “Designing Interfaces”
 - S. Krug – “Don’t Make Me Think”
- Incorporate *InfoGraphics*

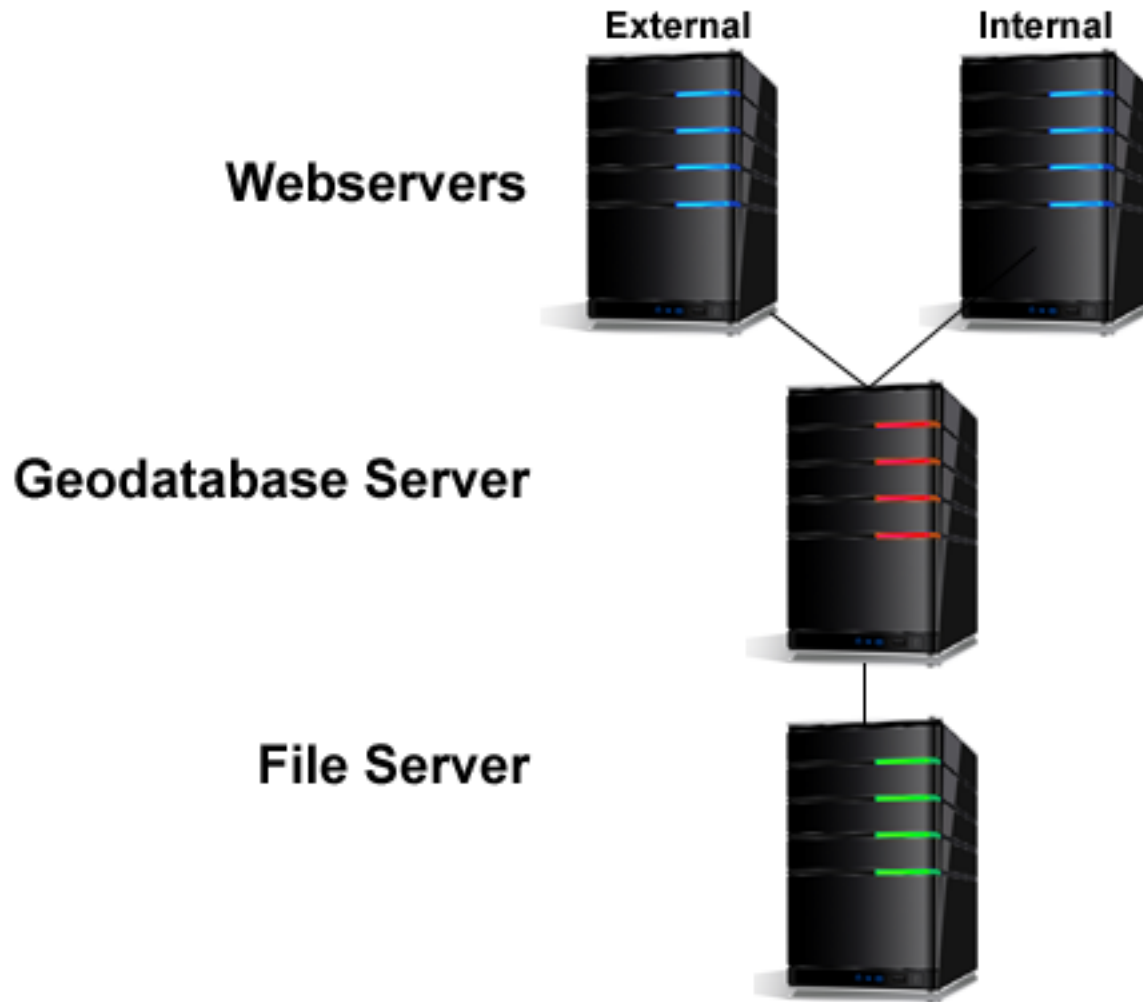
Development Strategy

- Went Live December 2009
- Total Project Duration: 10 months
 - ESRI built a prototype
 - Learned Flex
 - Build our own apps in-house
 - Designed the website
 - Implementation

Technology



Technology



What's Next?

- More External Applications:
 - Solar application(June 2010)
 - Crime statistics application
 - Green application
 - Census application

What's Next?

- Optimization
- Migrate to ArcGIS 10
- Begin work on the Internal Site
 - *GEOweb Plus*
 - More focussed applications for staff
 - Editing

Conclusion

- Flex platform
 - Great for building RIA
 - Flexible
 - Incorporates Flash elements
- Allows us to get our info out to the public
- Exciting time for GIS app development

Questions?

GEOweb

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