Smart Growth Locator

www.njlocator.gov

What is the NJ
Smart Growth Locator?

- Web-based address search tool created by HMFA in 2004
- Helps developers and consumers determine whether a property is in a Smart Growth Area
- Helps administer policies, regulations and funding programs connected to Smart Growth Areas
- Winner of 2007 APA National Planning Excellence Award for Best Practices

Smart Growth Locator

www.njlocator.gov

Why was the Locator created?

- NJ State Development and Redevelopment Plan
- 2002 Directive to align state departmental policies with the State Plan
- HMFA programs that resulted:
  - Smart Start, LIHTC Smart Growth Points, MONI/CHOICE program priority
- Takes the guesswork out of Smart Growth

Smart Growth Locator

www.njlocator.gov

How does it work?

- Technology:
  - Web-based application using HTML and javascript on Windows server infrastructure
  - Underlying GIS programming via ArcIMS and ArcSDE
- Click on www.njlocator.gov for a demonstration

Smart Growth Locator

www.njlocator.gov

Results: Site Usage

- Site usage has dramatically increased:
  - September 2004   343 hits/month
  - April 2005   10,606 hits/month
  - Today   over 15,000 hits/month

Smart
Growth
Locator

www.njlocator.gov

Results: Relied on by other state agencies

- Board of Public Utilities
  - Energy Star/Smart Start eligibility; Smart Growth utility extension rules

- Economic Development Agency
  - Priority points for Business Employment Incentive program

- Applicable to other state agencies with Smart Growth Programs
  - Office of Smart Growth, DOT

Smart Growth Locator
www.njlocator.gov

Next Iteration of the SGL:
New Jersey's Location Assessment Tool

- Locator tool that provides site data from numerous state agencies
  - Environmental, Economic Growth/ Planning, and Work Force/Demographic data
- Provide a more comprehensive HMFA Program Eligibility tool
- Goal is to bring in all user-friendly features of SGL
- Available on the NJ Business Portal

NJ Housing and Mortgage Finance Agency

Marge Della Vecchia, PP/AICP

Executive Director

- Mdellavecchia@njhmfa.state.nj.us

Maura McManimon Fennessy, PP/AICP

Director of Policy and Planning

- Mfennessy@njhmfa.state.nj.us

Smart Growth Locator
www.njlocator.gov

DVRPC Information Regional Exchange Group

Geospatial Technologies
From the Commonwealth Viewpoint:

Vision and Opportunities
12 December 2007

Jim Knudson, Deputy CIO, Environmental CoP

Commonwealth of PA | Governor's Office of Administration | Office for Information Technology

http://www.gis.state.pa.us

Commonwealth Changes…

- Nothing stands still… In the last 24 months…
  - Start of the Governor's Second Term
  - Changes in the Governor's Office
  - New legislators and legislative session
  - 2 New Secretaries of Administration
  - 3 New State CIOs (4th being recruited)
  - IT Communities of Practice (CoP) Created
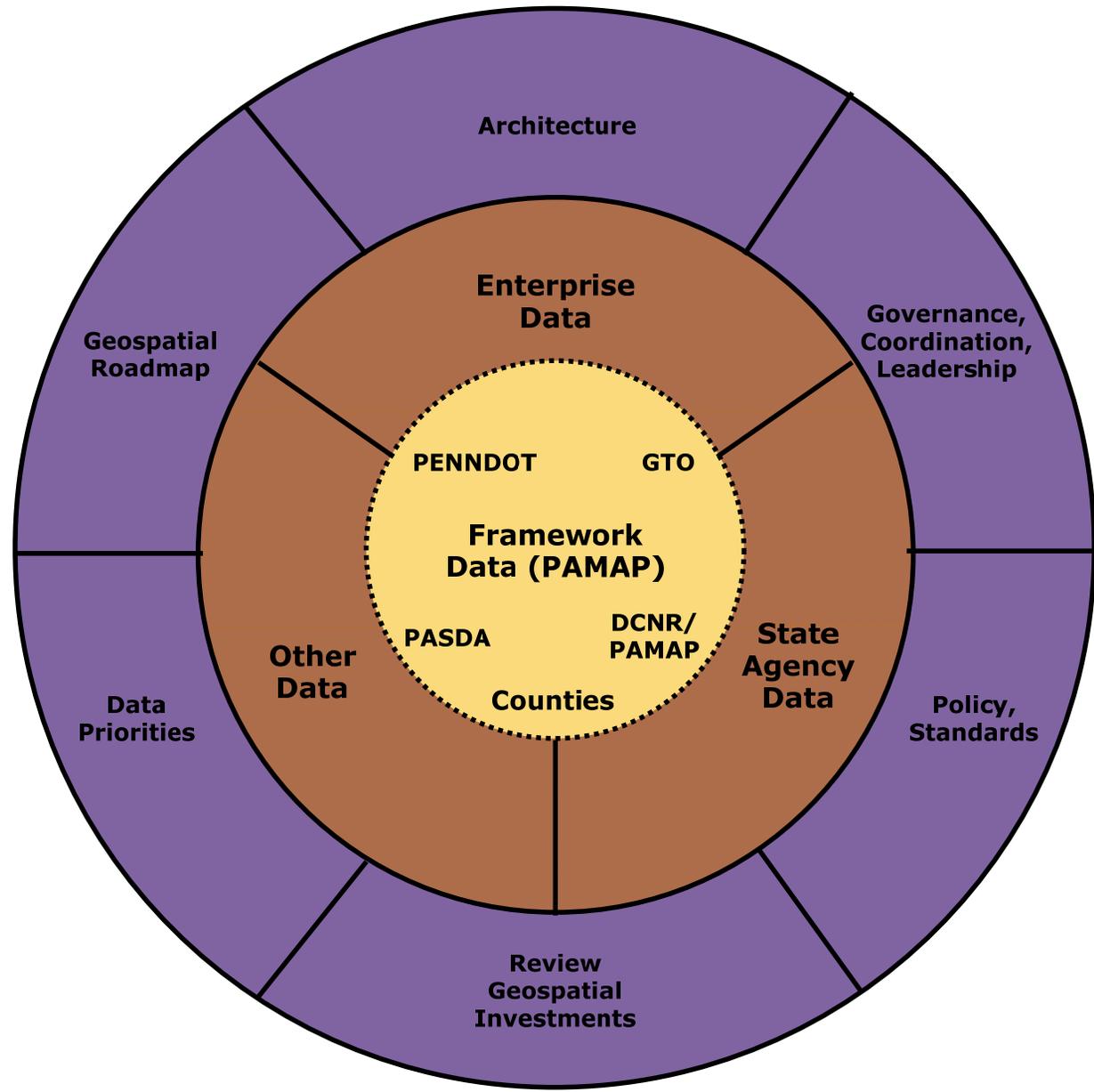 - IT Reorganizations and Consolidations

PA IT Communities of Practice (CoP)

- Organized along similar Lines of Business
- 4 CoP Organizations
  - Environmental
  - Health and Human Services
  - General Government Operations
  - Public Safety
- Dedicated staff – Deputy CIO, Planner, Services Coordinator
- Review and approve agency IT strategic plans, IT projects, IT procurements
- Evolving every year – Agency CIO now reports to DCIO, IT consolidation occurring

Enterprise Geospatial Program

Legend:
- PAMAP Data
- Other Data
- Enterprise Geospatial Program

Architecture

Governance, Coordination, Leadership

Policy, Standards

Review Geospatial Investments

Data Priorities

Geospatial Roadmap

Enterprise Data

State Agency Data

Other Data

Framework Data (PAMAP)

PENNDOT

GTO

PASDA

DCNR/ PAMAP

Counties

GTO/Geospatial Evolution…

- Changes in geospatial priorities

- Improvements in enterprise geospatial processes

- Another year of the PAMAP statewide imagery and elevation program

- GIS Council Legislation – HB 1304

  - Hearing held on 8/29

  - PA Geospatial Policy Symposium held on 10/4

Administration Geospatial Priorities

- PAMAP

- Flooding Mitigation
  - Flooding and other risks must be addressed
  - GTO and PAMAP are involved in the discussion and the role of geospatial data is clearly evident

- Economic Development, Education, Insurance

- Community of Practice Support

- Strategically Redundant Geospatial Architecture

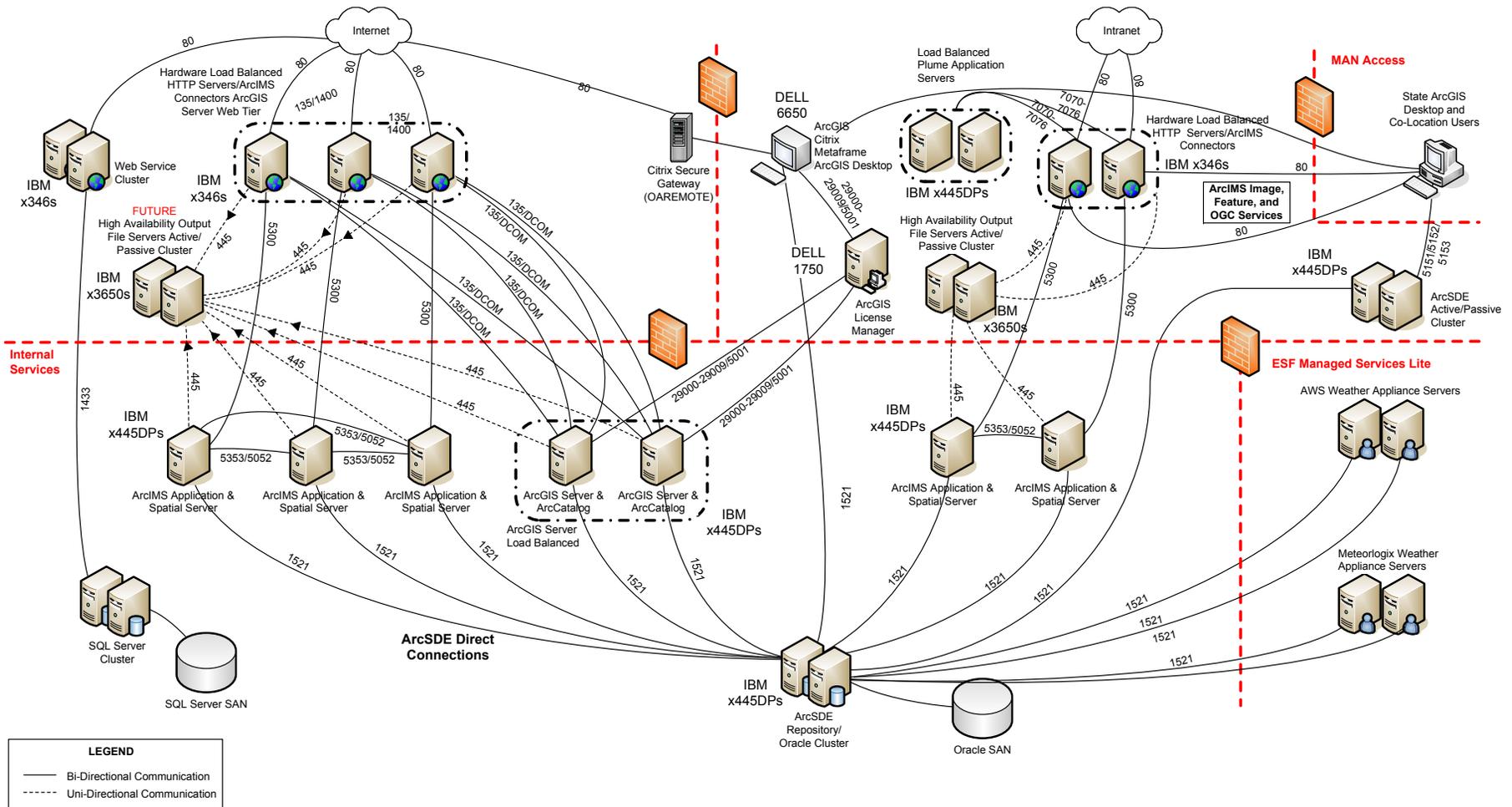- Geospatial Data Sharing, Data Standards

Geospatial Enterprise Server Architecture

2nd DRAFT

Geospatial Enterprise Server Architecture
PRODUCTION
Updated May 11, 2007

Geospatial Enterprise Server Architecture (GESA)

- Enterprise Geospatial Database – centralized, most agencies not ready for OGC compatible distributed database services yet
  - Comprised of data that should be shared
  - Currently 300+ data assets
    - State Agency GIS data
    - Statewide Imagery Data
    - Enterprise Data Licenses – TANA, Places2Protect, iMapData
    - Real-Time Weather (AWS and Meteorlogix)
  - New data loaded daily

- Shared GIS Application Hosting Environment – web services, ArcIMS, ArcGIS Server, etc.

Enterprise Projects and Priorities

- Mapping Services – ESRI, OGC
  – 16 mapping services, theme
  based (transportation, weather,
  imagery) – shared with
  Government partners and first
  responders - secure

- 13 Web Services – reusable
  application components

- Enterprise Applications
  – Geospatial Analysis of Threats and
  Incident Reports (PEMA, Severe
  Weather/Plume Modeling, Health)

Geospatial Services

GATIR

GEOSPATIAL ANALYSIS OF THREATS AND INCIDENT REPORTS

Enterprise Projects and Priorities

- State Geospatial Clearinghouse (PASDA)
  - 10+ years of Commonwealth service - PSU
  - Funded by GTO
  - Public GIS Data Access – many state agencies, counties share their data
  - Commonwealth's NSDI/GOS Node
  - Supports GTO/PEMA for emergency events in the Commonwealth
  - Hardening server architecture to make it high availability
  - Expanding storage to support 10 Terabytes of PAMAP Imagery and LiDAR data

Enterprise Projects and Priorities

- ## State Geospatial Clearinghouse (PASDA)

  – Maurie, Ryan, James, Scott, and Chris continue to do great work for the Commonwealth

  – Metadata support and training

  – Public PAMAP Imagery and LiDAR Data Access

  – Mapping Services – ESRI, OGC, KML

  – Service Delivery/Customer Support

Enterprise Projects and Priorities

- PAMAP – Statewide Imagery and Elevation
  - DCNR is the Agency Responsible for PAMAP
  - Office of Administration has provided significant funding for PAMAP - $3.5M in FY2006 (through June 30, 2007), $4M for FY2007
  - GTO is loading PAMAP for government/public safety use in the GESA enterprise geospatial database and provides secure access through mapping services and applications
  - Governor's Office Flooding Mitigation priority is highlighting the value of geospatial technologies and PAMAP

PAMAP Update – As of 11/2007

- Funding secured for FY2007, looking at FY2008
- Priorities include:
  - Eastern 1/3 of state, covering DVRPC area
    - Completion of collection in Spring 2008, complete delivery of all products around January 2009 if possible
    - Work continues to be accomplished through DCNR grant to PSU this year and next year
      - Funding being transferred to DCNR from OA
      - Funding will be transferred from DCNR to PSU
    - Products being collected for Eastern PA Spring 2008
      - PAMAP Imagery – 1' pixel, true color, digital camera
      - PAMAP LiDAR – 1.4m postings, 2' contours, LAS file, and DEM
  - Coordinating with Jon Janowicz of FEMA Region III on Map Modernization and NFIP to ensure maximum use of PAMAP LiDAR and imagery products

GTO Priorities for 2007-2008

- #1 for FY2007 will be staffing and growth – advertising, interviewing, hiring, training, integration of 5 new staff – 1 Civil Service, 4 Non-Civil Service as indicated on GTO Org Chart

- #2 is Coordination and Governance
  - 32 State Agencies
  - Pennsylvania Geospatial Advisory Council
  - Enterprise Vision for Comprehensive Commonwealth Geospatial Program that includes PAMAP and GTO
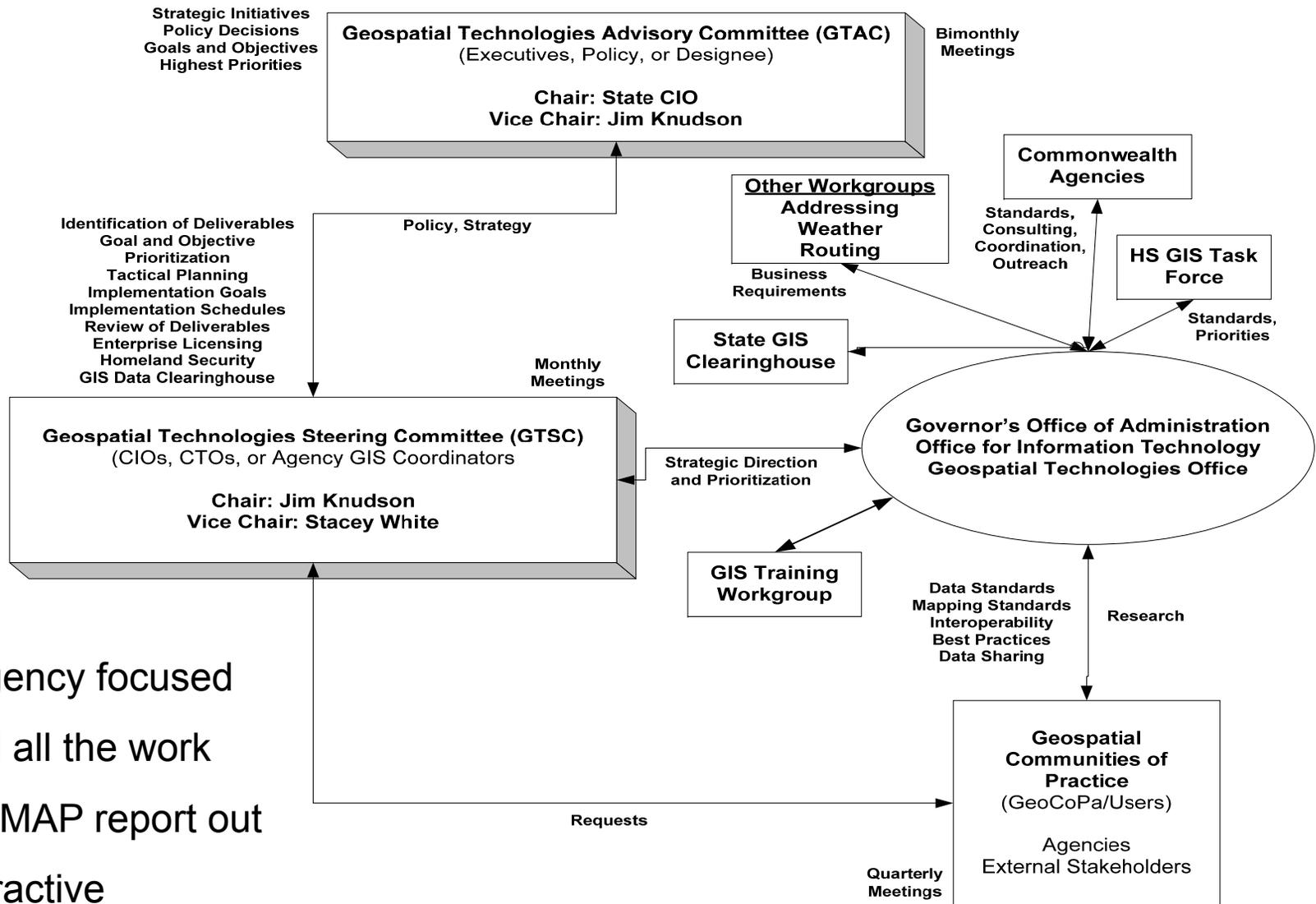
GTO Priorities for 2007-2008

- Finish incomplete Enterprise Applications so we can focus on governance, coordination, and communication
  - Severe Weather Alerting and Plume Modeling - December
  - GATIR Health (SNS Deployments/Pandemic) – March

- Geospatial Data Priorities
  - PAMAP Loading, Vector Data Planning – Imagery and Elevation Loading
  - Centerlines, Parcels, Buildings - Strategy

GTO Priorities for 2007-2008

- Governance, Coordination, Standards
  - Pennsylvania Geospatial Advisory Council
  - Development of a single Commonwealth Enterprise Geospatial Program at the state level
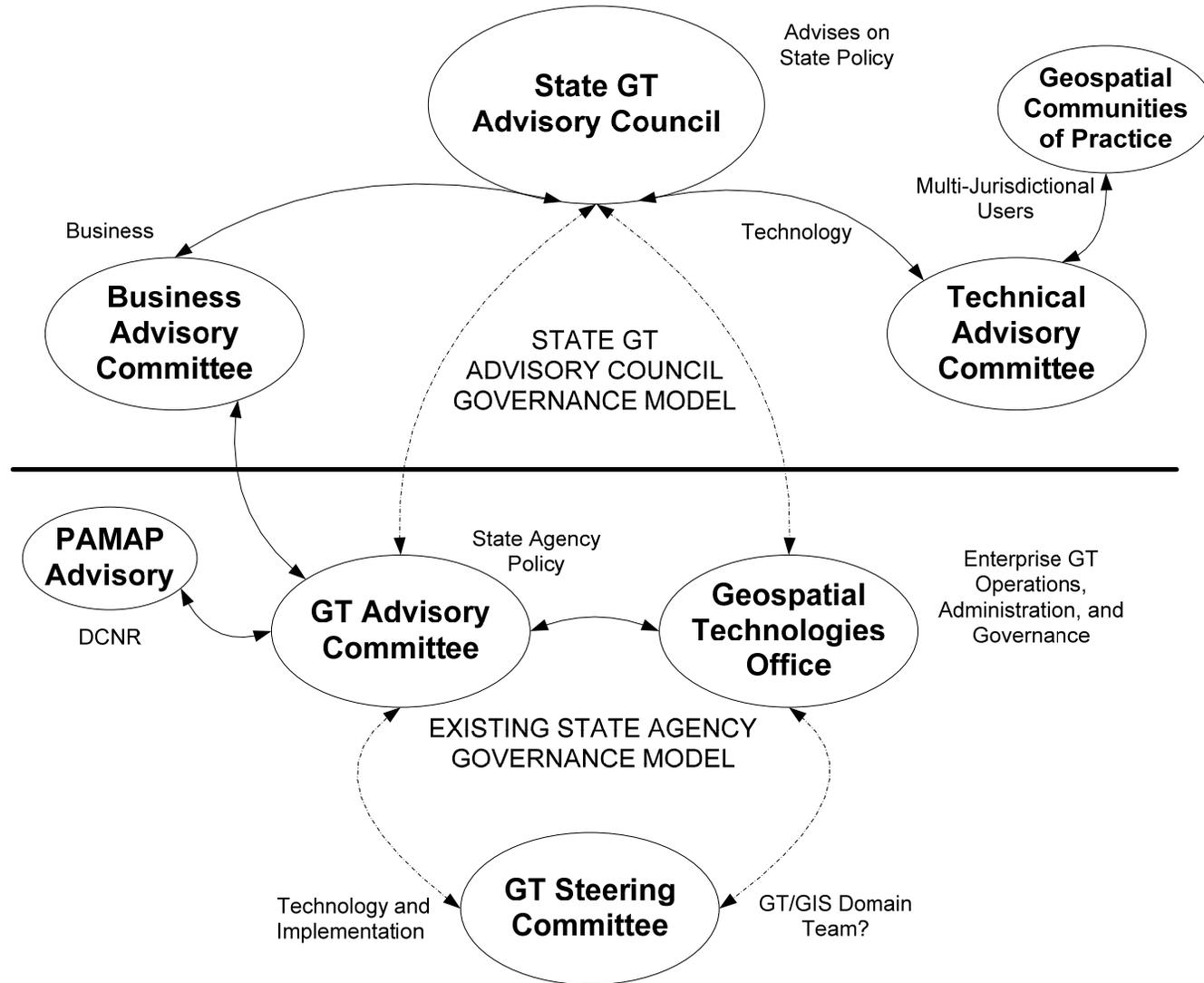
As-Is Geospatial Governance

Strategic Initiatives
Policy Decisions
Goals and Objectives
Highest Priorities

Geospatial Technologies Advisory Committee (GTAC)
(Executives, Policy, or Designee)

Chair: State CIO
Vice Chair: Jim Knudson

Bimonthly
Meetings

Commonwealth Agencies

Other Workgroups
Addressing
Weather
Routing

Standards,
Consulting,
Coordination,
Outreach

HS GIS Task Force

Identification of Deliverables
Goal and Objective
Prioritization
Tactical Planning
Implementation Goals
Implementation Schedules
Review of Deliverables
Enterprise Licensing
Homeland Security
GIS Data Clearinghouse

Policy, Strategy

Business
Requirements

State GIS Clearinghouse

Standards,
Priorities

Monthly
Meetings

Geospatial Technologies Steering Committee (GTSC)
(CIOs, CTOs, or Agency GIS Coordinators)

Chair: Jim Knudson
Vice Chair: Stacey White

Governor's Office of Administration
Office for Information Technology
Geospatial Technologies Office

Strategic Direction
and Prioritization

GIS Training Workgroup

Data Standards
Mapping Standards
Interoperability
Best Practices
Data Sharing

Research

Issues:

• State Agency focused

• GTO did all the work

• GTO/PAMAP report out

• Not interactive

Requests

Geospatial Communities of Practice
(GeoCoPa/Users)

Agencies
External Stakeholders

Quarterly
Meetings

Geospatial Governance – To-Be

- Enterprise geospatial priorities will focus primarily on governance, coordination, and geospatial enterprise architecture.
  - Governance, Coordination, Leadership
  - Policy, Standards
  - Commonwealth Geospatial Data Priorities
  - Geospatial Data Architecture
  - Review of Commonwealth Geospatial Investments
  - Geospatial Roadmap for the Commonwealth
  - Statewide Geospatial Advisory Council
    - Bring all Commonwealth geospatial stakeholders together for strategic planning, prioritization, data sharing, funding needs

State Geospatial Technologies Governance Concept
Draft v.1
September 1, 2007

Commonwealth Geospatial Governance To-Be Model Vision

Continuing State SDI Progress

- Statewide Geospatial Council
  - Statewide Geospatial Council legislation introduced
    - HR882 (2004)
    - HB2871 (2006) – PA Geospatial Coordinating Council (PGCC)
    - HB1304 (2007) – PGCC version 2

  - The Administration advocates for the formation of a statewide geospatial advisory council by Executive Order rather than legislation
    - Multi-jurisdictional, representative of Commonwealth stakeholders
    - To avoid duplication of existing and successful enterprise programs
    - To leverage existing areas of expertise and knowledge
    - To ensure that the statewide geospatial _advisory_ council goals align with the goals and priorities of the administration

Geospatial Opportunities in the Commonwealth

Opportunities – Commonwealth Services

- Commonwealth offers products and services that can be utilized by local governments
  - Commercial Data Licenses
    - TeleAtlas North America Enterprise License
    - Places2Protect Enterprise License
    - iMapData Utilities Data (limited to public safety)
    - AWS Weatherbug, DTN/Meteorlogix – real-time weather (limited)
  - Online Services
    - PASDA
    - GESA Mapping Services, Web Services, Applications, Hosting
    - Web Services include:
      - Nationwide Address Geocoding
      - Point in Polygon
  - PAMAP Imagery and Elevation Data

Opportunities – Involvement/Collaboration

- Governance – very important
  - Pennsylvania Geospatial Advisory Council
    - Council membership will likely be elected officials, agency heads, policy and decision makers, academia, etc.
    - Committees will be made of GIS practitioners – program, technical, data, etc. Lots of opportunities for participation and to add your voice and expertise
  - CCAP is applying for a 2008 FGDC Fifty States CAP grant to focus on what a council should do
    - Will likely hold regional meetings to bring Commonwealth stakeholders together for consensus-building activities

Opportunities – Involvement/Collaboration

- Commonwealth Geospatial Data Priorities
  - Imagery and Elevation – State Provided
  - Road Centerlines – need for geocoding, E-9-1-1, etc.
  - Parcels – need for economic development, flooding mitigation, geocoding, public safety, land use
  - Buildings – need for public safety, flooding mitigation, geocoding

- Data Sharing and Data Sharing Agreements
  - Help us identify the issues, barriers, and solutions to sharing data between and across levels of government

Opportunities – Involvement/Collaboration

- PA Map Modernization
  - Help address the flooding risk in Pennsylvania
  - DCED, PAMAGIC, PSATS, GTO are working to establish a Pennsylvania Chapter of the Association of State Floodplain Managers (ASFPM)
  - How can we use geospatial technologies, PAMAP, and our collective knowledge to mitigate risk before the next flooding event and respond effectively when flooding does occur? – flood forecasting, flood inundation modeling

Exciting Times Ahead in Pennsylvania!

- The PAMAP Office continues to map the Commonwealth with high resolution imagery and elevation data.

- The State is working together to create an enterprise geospatial program that addresses Commonwealth-wide geospatial priorities.

- A new statewide geospatial advisory council is on the horizon and will provide a multi-jurisdictional forum for statewide planning, prioritization, and issue resolution.

Exciting Times Ahead in Pennsylvania!

- The geospatial stakeholder community continues to grow, mature, and prosper in the Commonwealth.

- The geospatial governance and coordination model will also continue to expand and mature, providing more information on state initiatives and plans as well as seeking opportunities for collaboration.

- As we complete the statewide elevation data project, priorities will shift to the rest of the geospatial framework layers – roads, parcels, buildings, boundaries.

Thank You!

Questions?

State GT/GIS Website – www.gis.state.pa.us