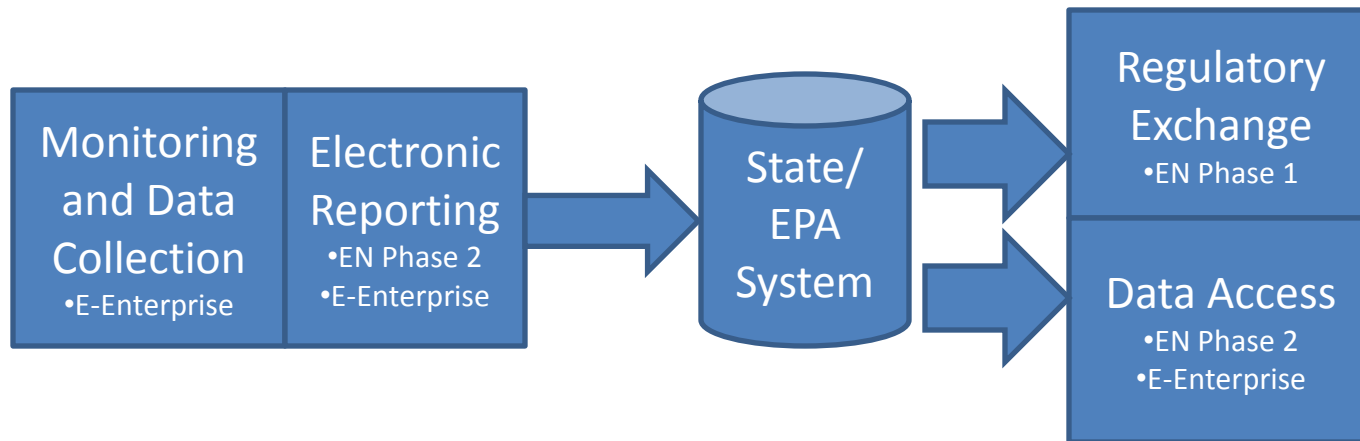


E-Enterprise for the Environment

ENLC NTB Meeting

June 18, 2013



Outline

- **Background: Where did this come from? (Andy B)**
- **Drivers**
- **Vision for E-Enterprise**
- **Governance Team Update (Chris S)**
- **Blueprint Team Update (John D)**
- **Business Case Team Update (Ron E/Roy W)**

Background

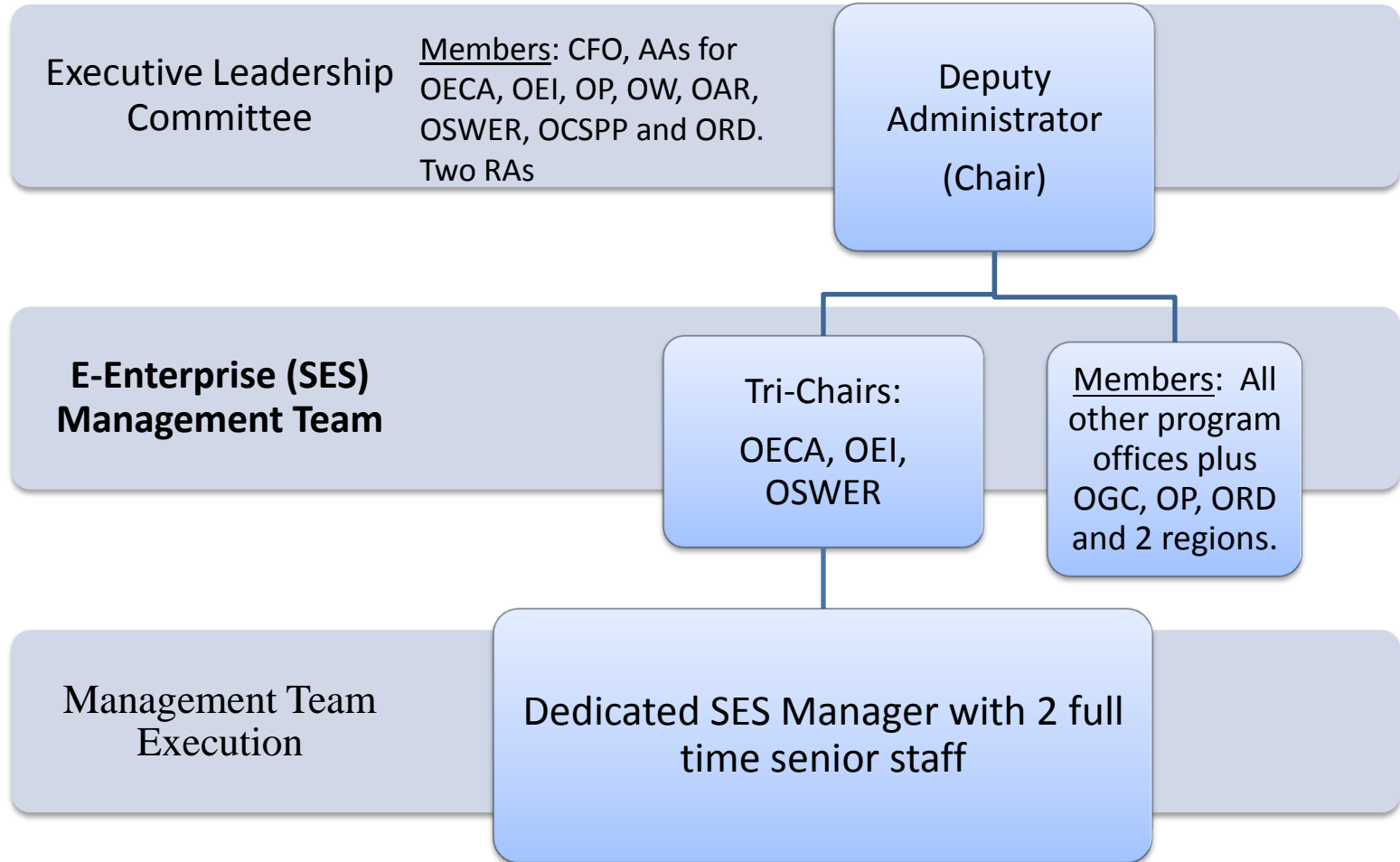
- In the government-wide review of federal regulations, EPA's *Final Plan for Periodic Retrospective Reviews of Existing Regulations*, August 2011, has 3 commitments to electronic reporting:
 1. Conduct a targeted review to convert key existing paper reporting requirements to electronic. This may include eliminating or streamlining outdated paper reports as part of electronic conversion.
 2. Develop a strategy/policy for ensuring that new rules incorporate the most efficient electronic reporting techniques.
 3. Encourage private sector development of reporting tools to drive innovation, reduce costs, and help regulated entities to comply using an open platform approach.

Background: continued

- In October 2011, Agency electronic reporting scoping workgroup provided recommendations for how to move forward to meet Retrospective Plan .
- In December 2011, Agency formed E-Reporting Task Force.
- Per Deputy Administrator and in collaboration with ECOS, expanded E-Reporting to broader initiative, now called E-Enterprise.
- Agency developed FY14 PB's investment for E-Enterprise.
- Sunset the E-Reporting Task Force and created new internal EPA governance for E-Enterprise.

— Next slide

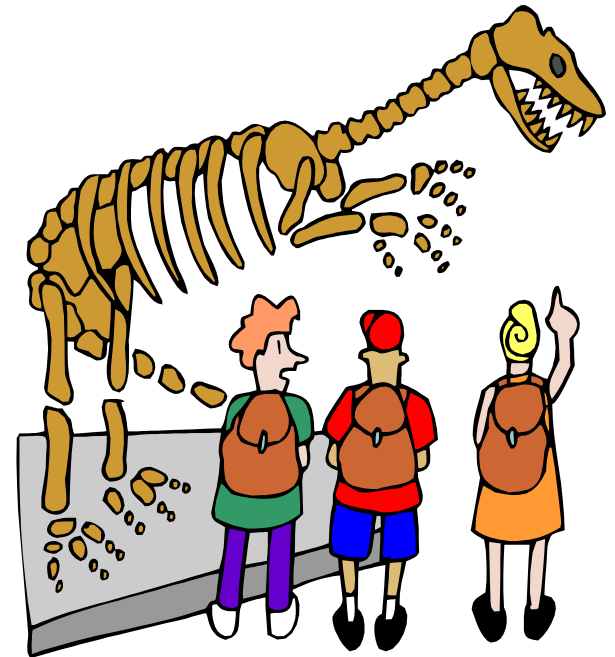
E-Enterprise internal EPA Governance Structure



Drivers

Our choice:

Build a 21st century digital government or be a dinosaur.

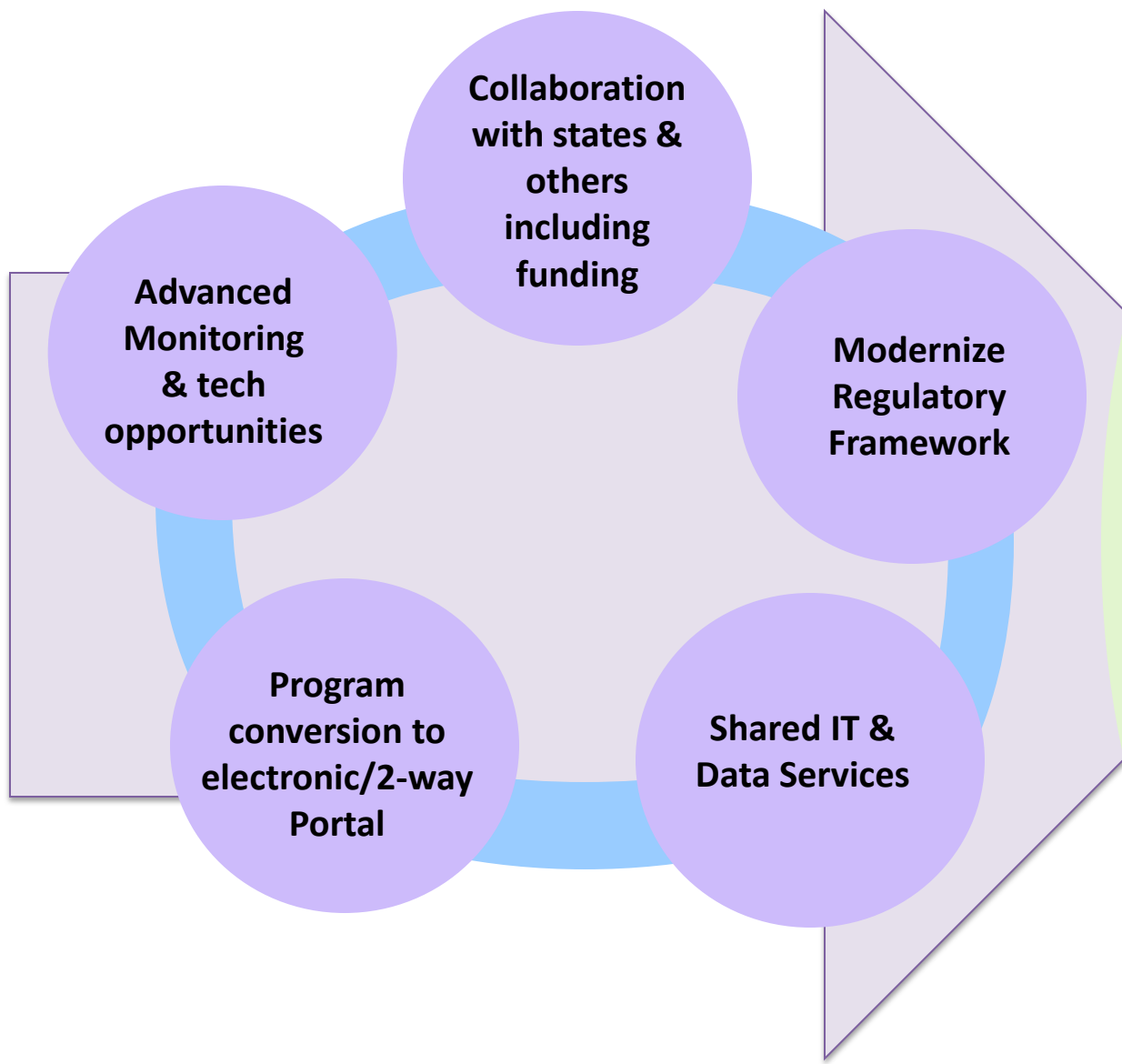


E-Enterprise for the Environment

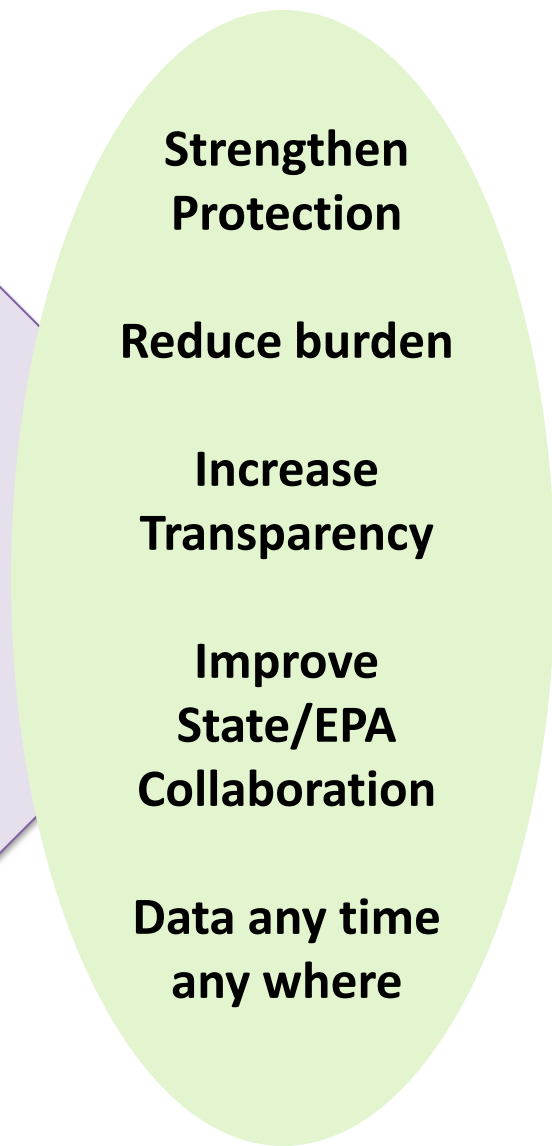
is a joint initiative of States and EPA to improve environmental outcomes and dramatically enhance service to the regulated community and the public by maximizing the use of advanced monitoring and information technologies, optimizing operations, and increasing transparency.



Major Components

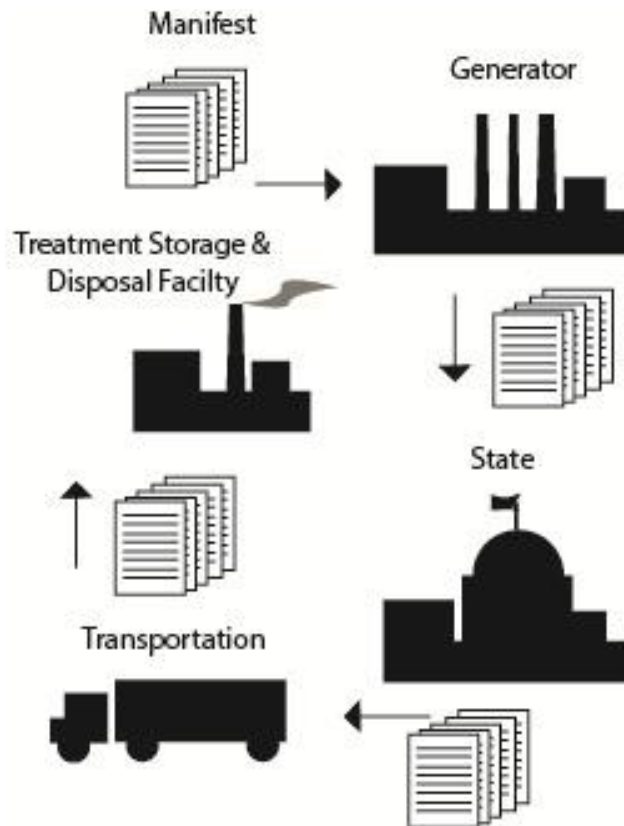


Key Drivers



Major opportunities to modernize business and regulatory processes

Example: E-manifest required regulatory reform to replace paper with digital platform.



Projected Savings: \$75 million and reduction in 400,000-700,000 FTE hours.



Modernize regulatory framework and convert to electronic

Current project: Consolidate Financial Assurance (FA) reporting under four statutes

- Industry spends est. 420,000 hrs establishing FA and \$33M on paper form filings.

**FA Universe
approx \$17B
in insurance
obligations**



**\$5B Known
CERCLA FA**



**\$5B Known
RCRA FA**



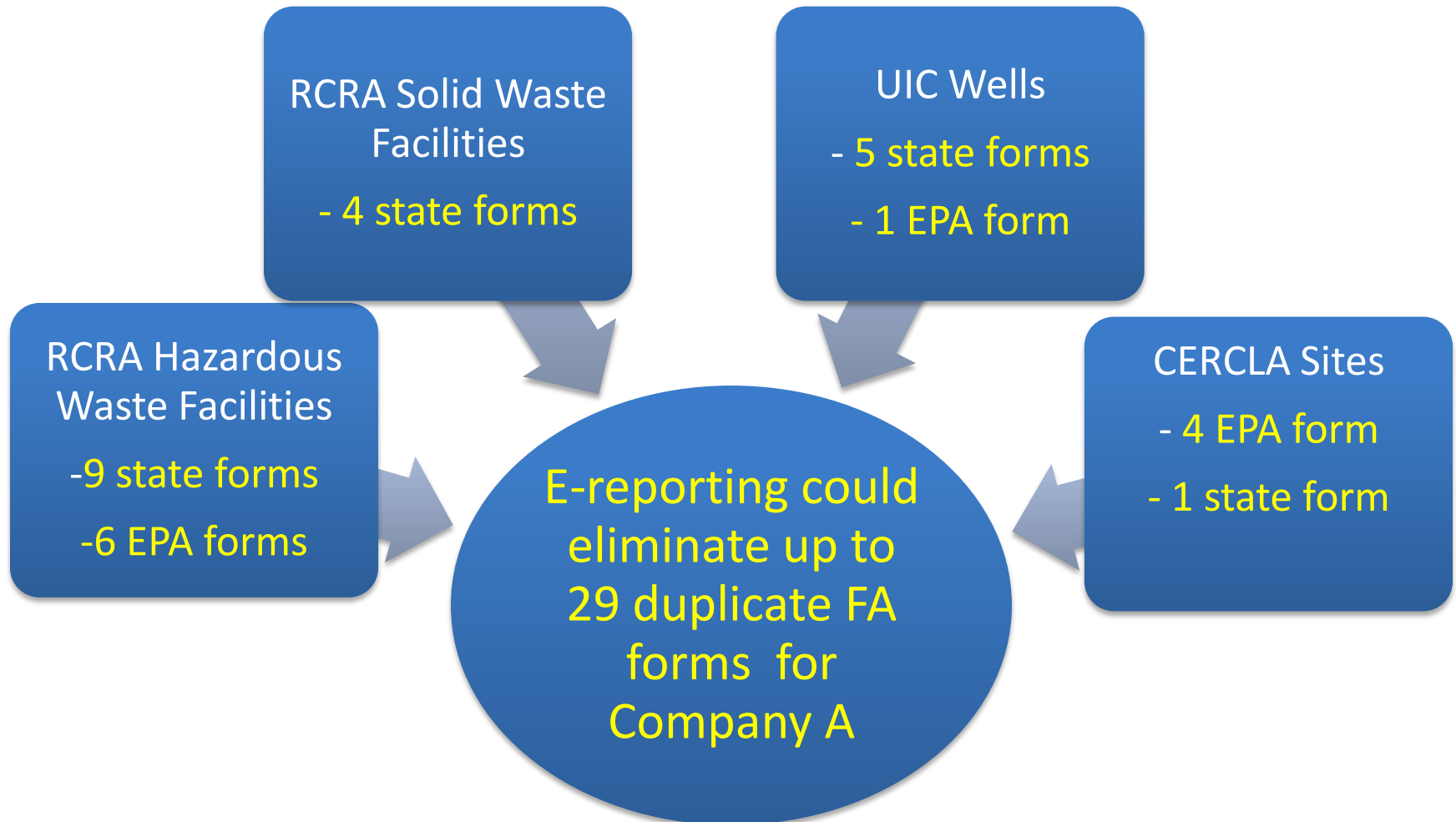
**\$6B
Estimated
SDWA FA**



Modernize regulatory framework and convert to electronic

Significant opportunities for burden reduction, data consolidation and improved performance.

(FA example from actual “Company A”)



Build on the Successful Partnership of the Environmental Information Exchange Network

- 30 common data standards and interoperable technology
- All 50 States and over 20 Tribes established and exchanging environmental information on the Exchange Network



Creating Shared Business Services through EPA's Cross-Media Electronic Reporting Regulation (CROMERR) to enable e-reporting.

Examples of shared business services

PayPal

Enter your information

Secure 

After you create your PayPal Account, we'll ask you to link your bank account, debit card, or credit card. Then, you can start using PayPal right away.

We don't share your financial information with third parties.

1. Set up your account

Email address

You will use this to log in to PayPal


Choose a password

WEB IMAGES VIDEOS MAPS NEWS REWARDS MORE

bing

Bing Rewards Accounts

Please sign in with your Bing Rewards Microsoft account or Facebook ID to access your account.

 Microsoft account

Sign in

 Facebook

Log in

- Enables states and EPA programs to identity proof electronic signatures to make sure associated with a real person.
- Similar to shared business services offered by many commonly used sites.

Program conversion to electronic/2-way Portal

Smart Portal (regulated entities view)

user-friendly
“smart” portal

two-way
transactions
between agencies
& regulated
entities

better service and
reduced burden

EPA United States Environmental Protection Agency

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What does this portal offer?

- ♦ electronic reporting
- ♦ regulatory reform
- ♦ optimum business
- ♦ transparency
- ♦ burden reduction

Notifications
System notifications will alert you of potential data errors or violations.

Sample:
• Annual compliance fee of \$175 for BWP 1W38 is due on January 31, 2013.

[Sign up for Notifications](#)

My Profile

Sign in
User
Password
[Forgot password?](#)

New User? [Create Profile](#)

SAMPLE

Program conversion to electronic

Smart Portal for 2-way Transactions (public view)

major enhancements
to EPA and state
platforms will provide a
more customized
experience through
secure user profiles

United States Environmental Protection Agency

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MyEnvironment
02421, MA

Where can I advertise an environmental cleanup that is happening next week in my town? View this and more in MyCommunity.

Learn More

MyMaps

View maps of EPA and partner data specific to your area of interest. Information on Air, Water, Land, Community, Health and Energy can be visualized on map, downloaded and printed.

MyAir

The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. Read More

Stow, MA

Air Quality

97.8%

95.6%

MIDDLESEX County, Massachusetts

November Average Data (2006 - 2008)

November Historical Data (2000-2002)

MyWater

The Assessment Total Maximum Daily Load (TMDL) Tracking and Implementation System (ATTAINS) provides information reported by the states to EPA about the conditions in their surface waters. This information is required every two years under Clean Water Act Sections 305(b) and 303(d). Read More

Name	Type	Size	Status
Alewife Brook	Lake	16.1 acres	Impaired
Alewife Brook	River	2.3 miles	Impaired
Griswold Pond	Lake	10.6 acres	Impaired
Blacks Nook			Impaired
Mill Pond	Artificial Path	0.1 miles	Impaired
Mill Pond	River	0.2 miles	Impaired
Bellevue Pond			Not Assessed
Nashoba Brook	Artificial Path	0.0 miles	Impaired
Nashoba Brook	Lake	8.6 acres	Impaired
Nashoba Brook	River	7.9 miles	Impaired

MyEnergy

The State Energy Data System (SEDS) is the U.S. Energy Information Administration's (EIA) source for comprehensive State energy statistics. Included are estimates of energy

MyHealth

Toxic air pollutants, or air toxics, are those pollutants known or suspected of causing cancer or other serious health problems, such as birth defects. Not all air pollutants are considered

MyLand

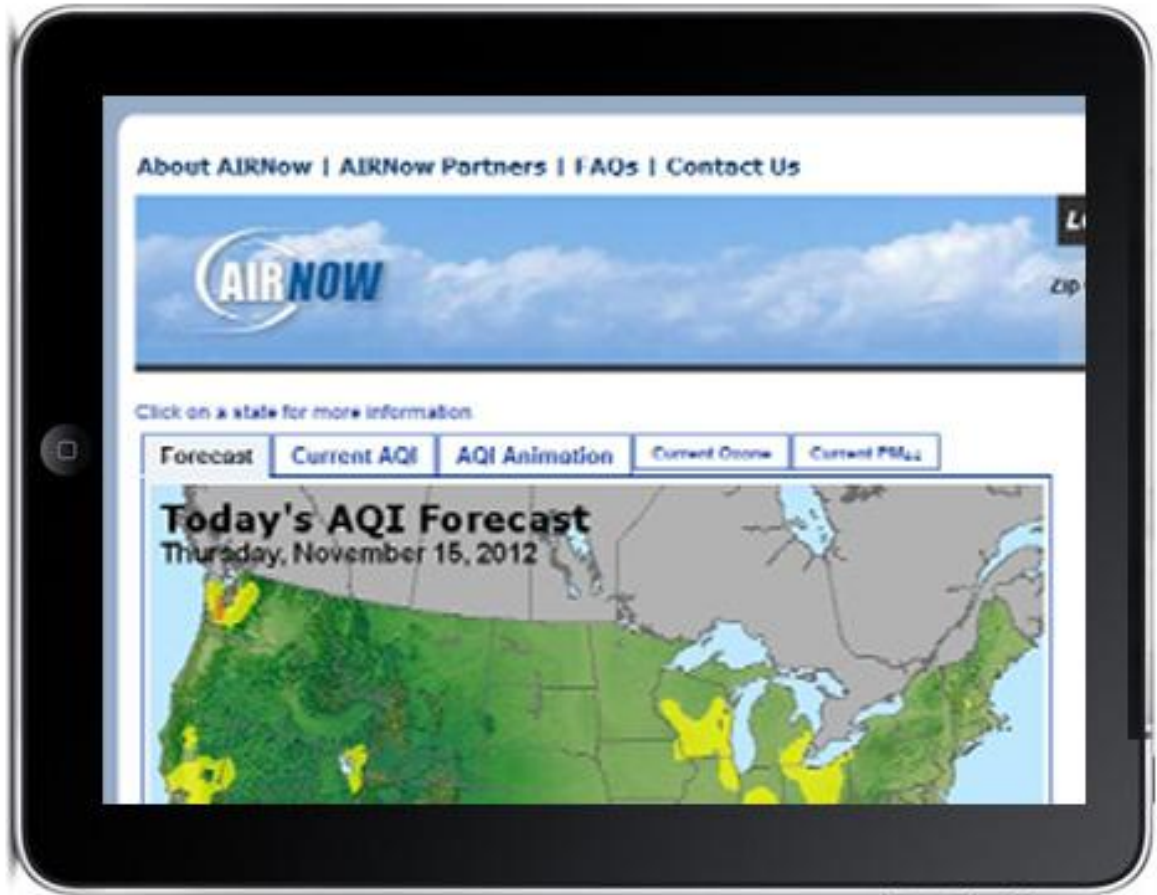
The National Priorities List (NPL) is the list of national priorities among the known releases or threatened releases of hazardous substances, pollutants, or contaminants

Integrate advanced government monitoring and mobile technologies

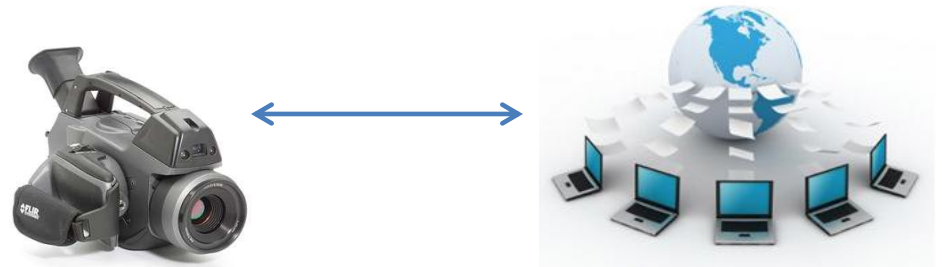
real-time info on releases and discharges of pollutants to air, water or land



Example



Expand environmental monitoring to give industry, government and the public enhanced ability to understand, avoid, treat or prevent pollutants



Optimize technology opportunities through integration



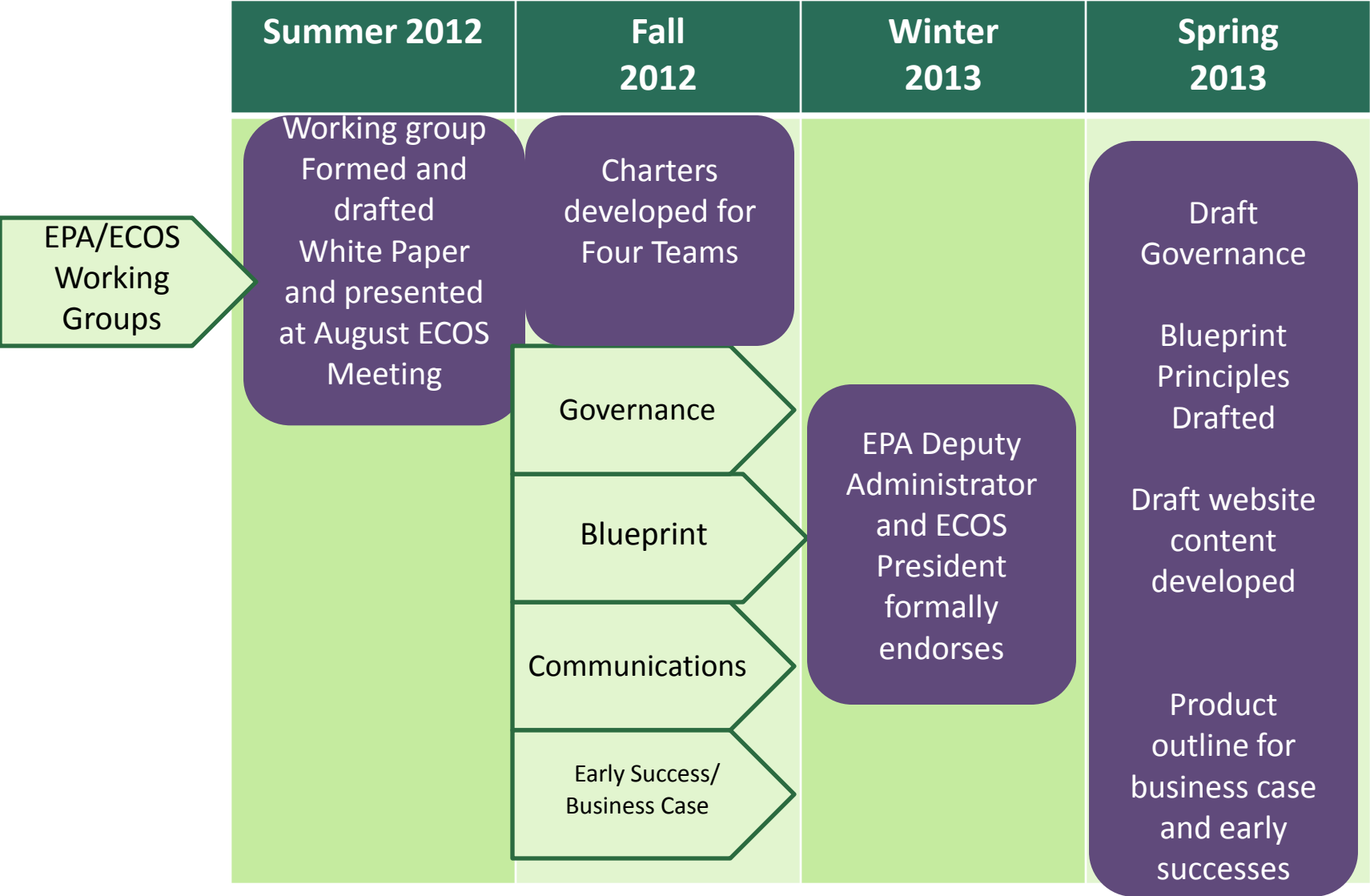
Unique Features of E-Enterprise

- E-Enterprise is a one-EPA initiative to modernize our business
 - Not just a similar set of IT projects.
- Many E-Enterprise projects do not have natural single office home
- Large Change in how EPA does its business
- Collaboration with ECOS in developing, managing and implementing
 - Not simply EPA sending ECOS almost finished products for comment.

E-ENTERPRISE JOINT GOVERNANCE

CHRIS S

History of EPA/ECOS collaboration on E-Enterprise



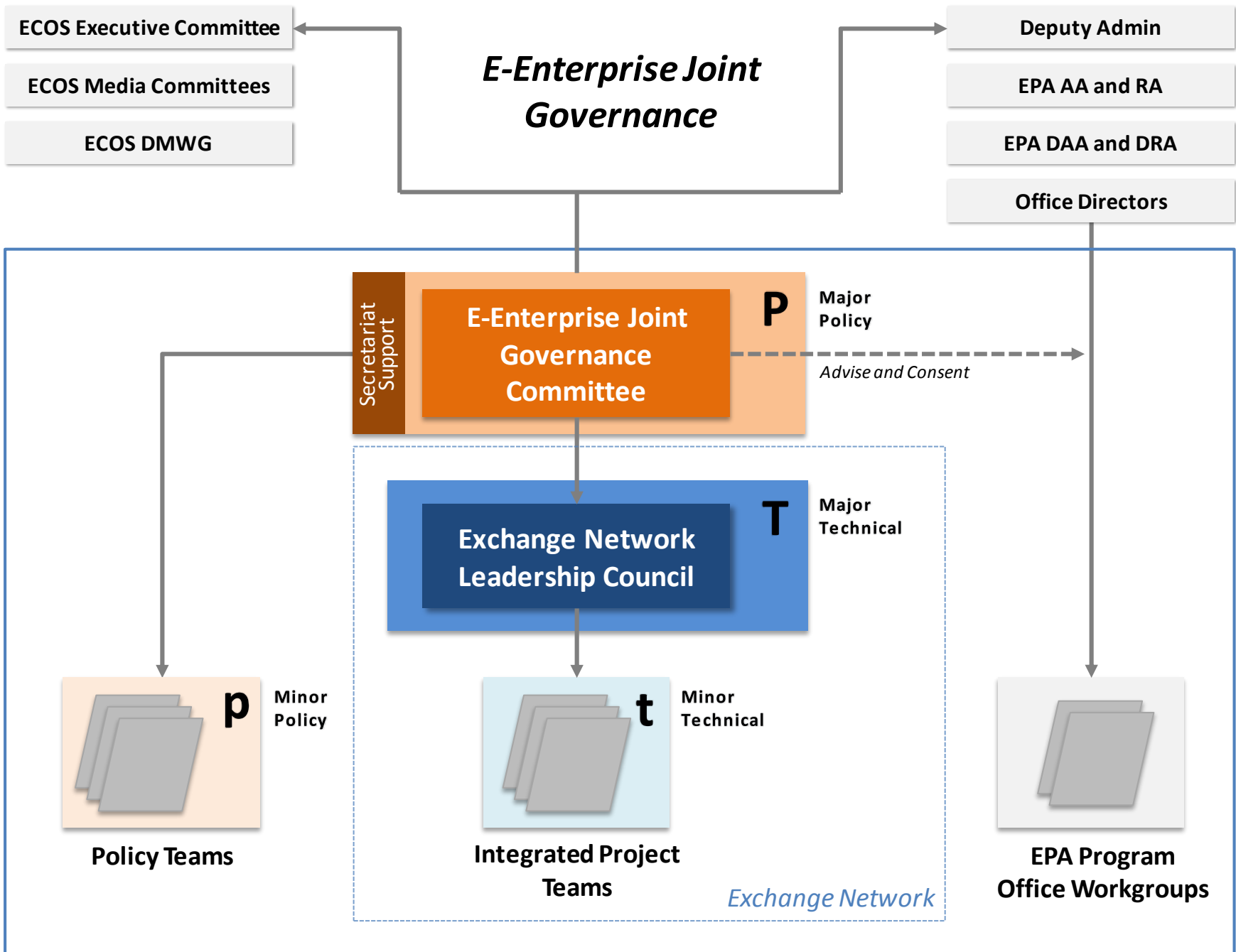
ECOS/EPA Teams and Co-Chairs

Governance Team : Tom Burack (NH)/Andy Battin (EPA)

Communications Team: Victoria Phillips (MA)/Ira Leighton (EPA R1)

Blueprint Team: Karen Bassett (AR)/Steve Chester (EPA)

Early Success/Business Case Team: Scott Nally (OH)/David Hindin (EPA)



Governance Team Current Status

- Continuing to work through questions of governance workflow, structure, and support.
- Drafting of the blueprint document identified essential programmatic deliberations that reconfirmed the assumptions of necessary seniority and representation in Joint Governance.
- On-track to have final recommendations late June/early July and charter by August.

Governance Question(s) #1

- How do you stand up Joint Governance in September in light of uncertainty in resources and the resulting uncertainty of staffing options?
 - Governance group did not feel as if a ‘soft launch’ in September was an option
 - Resource question drives ‘secretariat’ design
 - Acknowledge the need for Joint Governance immediately even though many early EPA projects will only involve direct reporters – State and Tribal input very necessary to assure long-term interoperability.

Governance Question(s) #2

- How do we ensure the maximum possible influence of Joint Governance decisions/recommendations?
 - What mechanisms are available to achieve maximum possible influence of Joint Governance?
 - Memo from EPA Administrator/Deputy Administrator and parallel ECOS Resolution stating commitment to the recommendations from Joint Governance
 - MOU as cover to Joint Governance Charter
 - Tight Coupling (membership and or roles and responsibilities) between ECOS Committees/EPA Internal Governance and Joint Governance.
 - Draft Assumption (still to be further discussed/refined): It is assumed that all partners will actively pursue implementation of Joint Governance recommendations. Secretariat will ensure that all perspectives are represented during Joint Governance deliberations.

Governance Question #3

- Who will sit on the Joint Governance and how many members will be on the Joint Governance?
 - Structure appears stable – no major issues have been identified.

E-ENTERPRISE BLUEPRINT

JOHN D

Background

- Convened with the purpose of establishing an overall framework for E Enterprise Launch (2013)
- Kick Off January 2013
- State and ECOS members including Arkansas, Arizona, Connecticut, Massachusetts, New Mexico, Wisconsin, Virginia. Also several EPA program and regional reps.

Blueprint Current Status

- Rough draft out for review with BP Team (Distributed 5/20).
- Next draft July 9th intended for broad distribution
- Next draft will:
 - Clarify purpose and context for document
 - Incorporate over 120 comments
 - Include governance section
 - Reorganized and edited to improve readability

Blueprint Substance Highlights

1. Design and Operating Principles
2. Vision/Logic Model
3. E-Enterprise Components

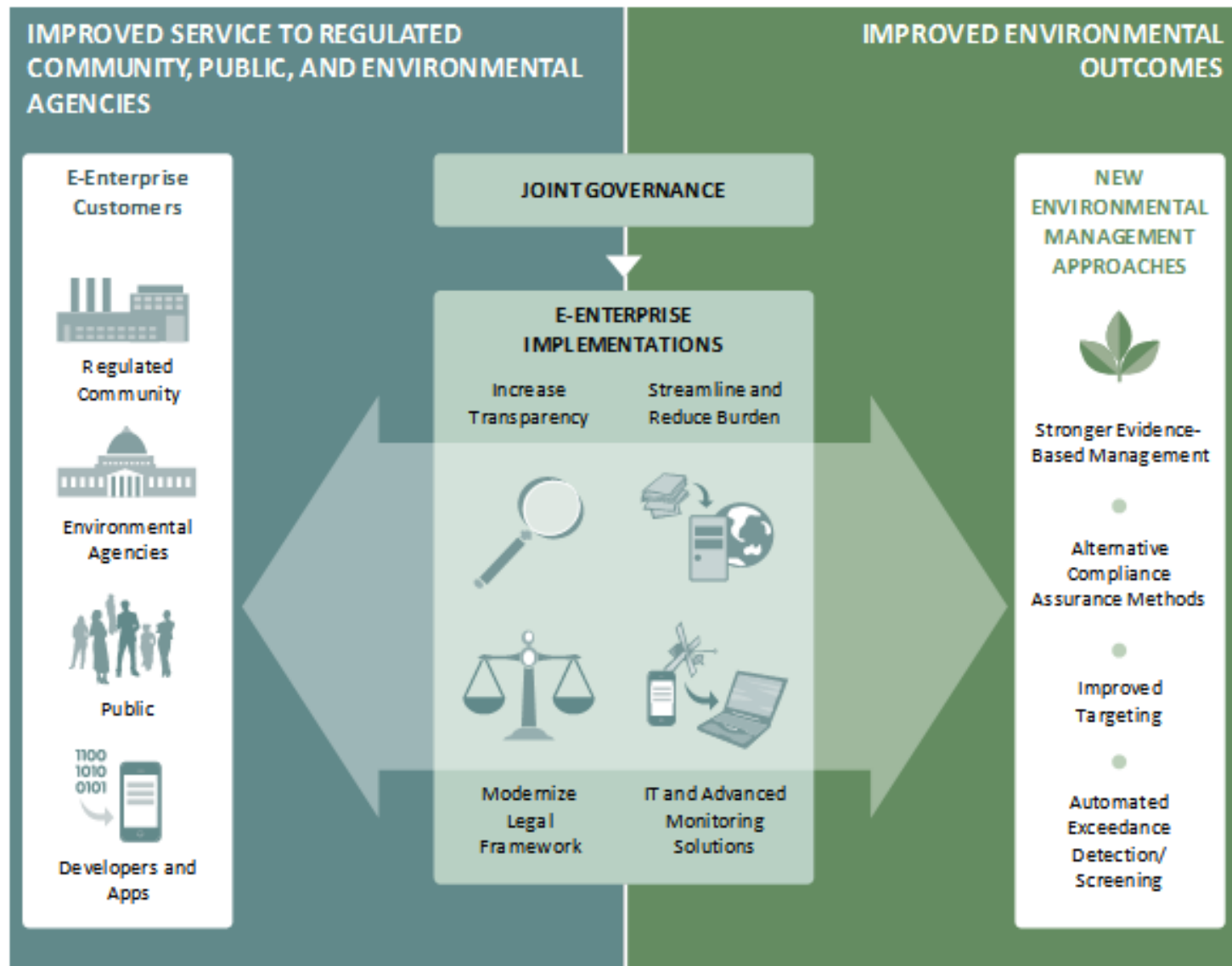
Design and Operating Principles

- Draft D/O Principles held up remarkably well and guided the drafting of document
 - BP includes description on how the DO were applied in the drafting of the blueprint.
 - Ron and Mary did extensive work to develop example projects and crosswalk with DO Principles.
- One new D/O principle and one D/O principle removed.
 - Added Open Data and Web Services
 - Acknowledge that Open Data and Web Services were connective tissue in realizing the vision and how the components related to one another.
 - Exchange Network and E-Enterprise key fulcrum point
 - Obama's Executive order on Open Data
 - Removed DO Principle placeholder for the EPA e-Reporting rule.
 - Nobody has commented that this should be re-inserted
 - Does the Working Group have any input into this?

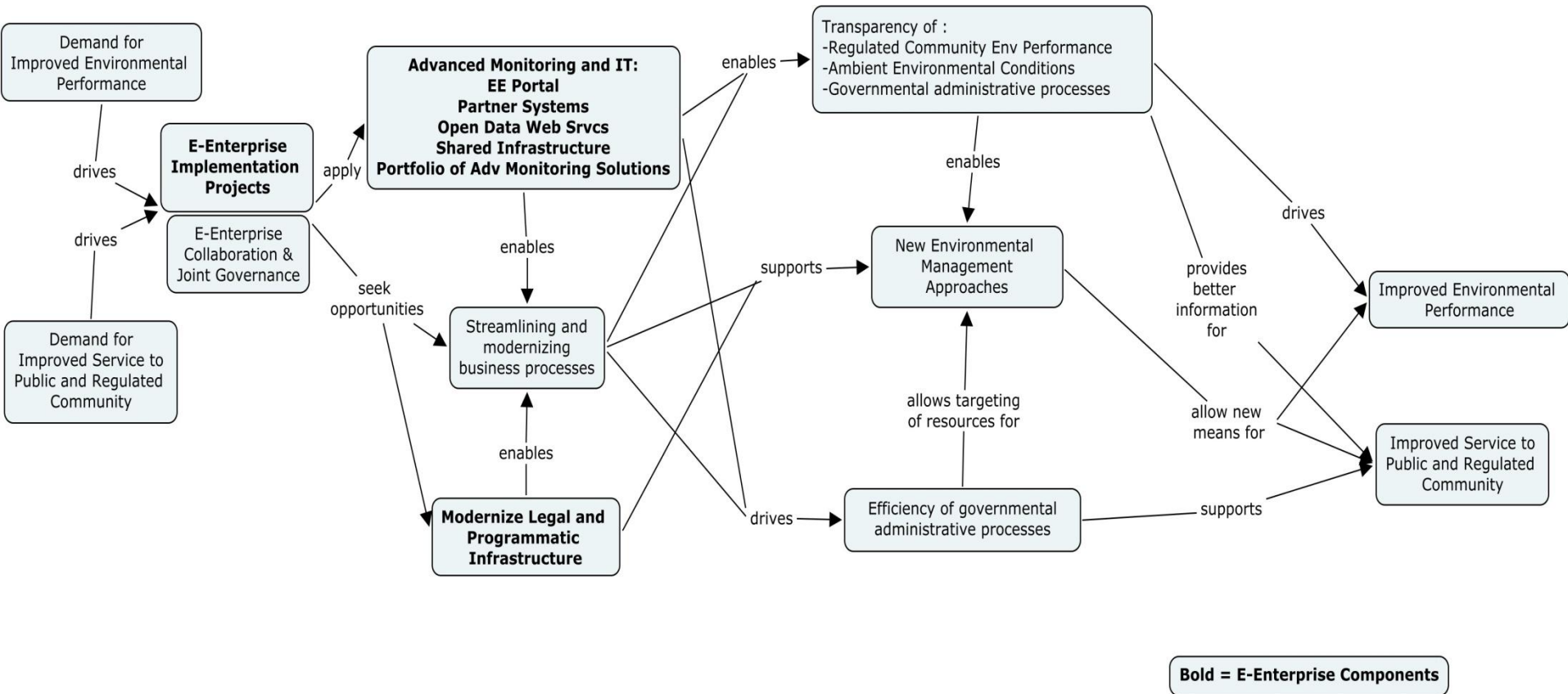
Vision, Logic Model, and Components

- BP assumed and built from the E-Enterprise Vision Statement. Key challenge in drafting of the blueprint was actualizing the implied relationships between the inputs, outputs, activities, and outcomes in the vision statement.
- 2 key graphics
 - E-Enterprise Vision attempting to visually relate the outcomes with the customers and outputs
 - Logic Model depicting the entire logic chain from demand to outcomes and relationship of the E-Enterprise Components.

Vision Graphic



E-Enterprise Logic Model and Components



BUSINESS CASE/EARLY SUCCESS

RON AND ROY

Purposes of Business Case

- **Strategy:** *Demonstrate that project/enterprise has value, importance, and relevance*
 - Audiences: OMB, EPA Management, State Leaders
- **Planning:** *Ensure that resources are optimized to promote highest value opportunities, best sequencing*
 - Audiences: E-Enterprise JG, management (maybe OMB)
- **Implementation:** *Document success and adjust projects as needed*
 - Audiences: OMB, EPA Management, State Leaders

Anticipated Activities for Business Case Team

- E-Enterprise Business Case Narrative (June 2013)
 - Describe E-Enterprise business need, goals, and benefits
 - Broad lens, key examples
 - Existing projects and benefits
 - Illustrative
- E-Enterprise Business Case Analytic Framework (July 2013)
 - Criteria for valuing potential projects
 - Screening tool for projects
- E-Enterprise Early Successes (December 2013)
 - Identify, prioritize successes according to Framework
 - Early successes likely to be identified by new joint ECOS EPA governance

Key Limitation

- Not possible to estimate “Initiative-Level ROI” or benefits
 - Projects aren’t identified yet
 - “Higher Order” benefits are cutting edge for economics
- Some illustrative, “order of magnitude” examples exist
 - Existing projects (not E-Enterprise)
 - Other Agencies (IRS, etc.)

Business Case: ROI 2.0

- Return on Investment (ROI) is standard, basic tool for project evaluation.
 - Consistent use at project level will aid planning, reassure budgeting leaders
- ROI is inadequate, particularly at Enterprise level
 - Some benefits long-term, difficult to quantify
 - Emphasis on collaboration aims to *change ROI*
 - *Need to establish dynamic ROI to ensure that learning and technology transfer are properly accounted for*
- Answer: two ROIs
 - Standard, project level – useful in planning.
 - ROI 2.0 – incorporate longer-term benefits and revisit at enterprise level

Benefits/Returns in four categories

- Efficiency:
 - Hours and dollars saved per transaction
 - Measurable, standard, *expected*
- Effectiveness
 - Also hours and dollars saved, but “structural” – changes in business model for agencies, stakeholders
 - Can include environmental impacts (Connecticut example)
- Customer experience, timely data
 - Important but difficult to measure at project level; cumulative (enterprise-level) may be interesting
- Market impacts, “beyond enterprise level”
 - Not predictable, but potentially big
 - Can occur at any level but usually enterprise level; tipping points often needed for markets

E-Enterprise for the Environment: Measuring ROIs

