

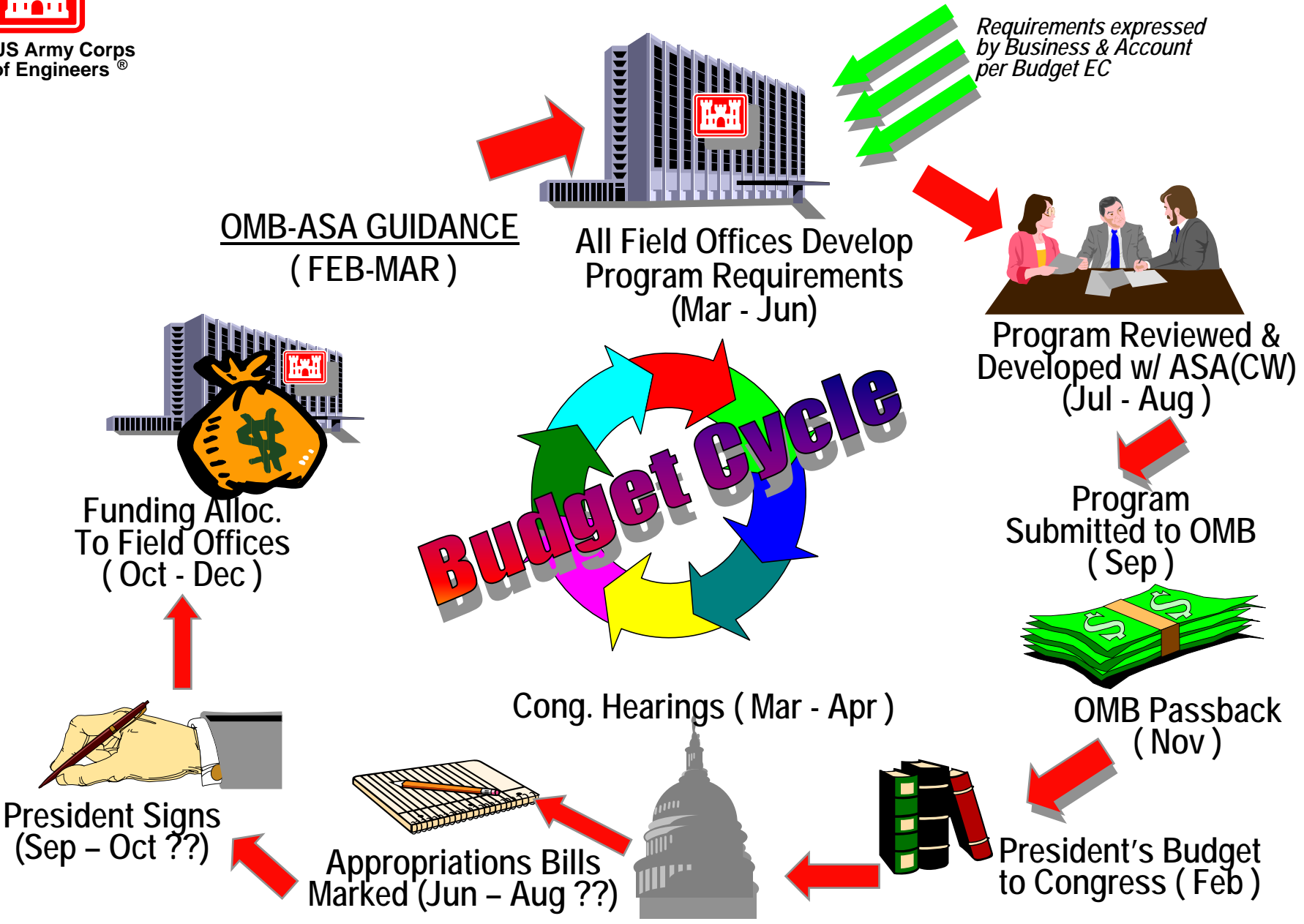
Civil Works Strategic Direction

***Presentation to
California Marine Affairs & Navigation Conference***

***Steven L. Stockton, P.E.
Deputy Director of Civil Works
U.S. Army Corps of Engineers***



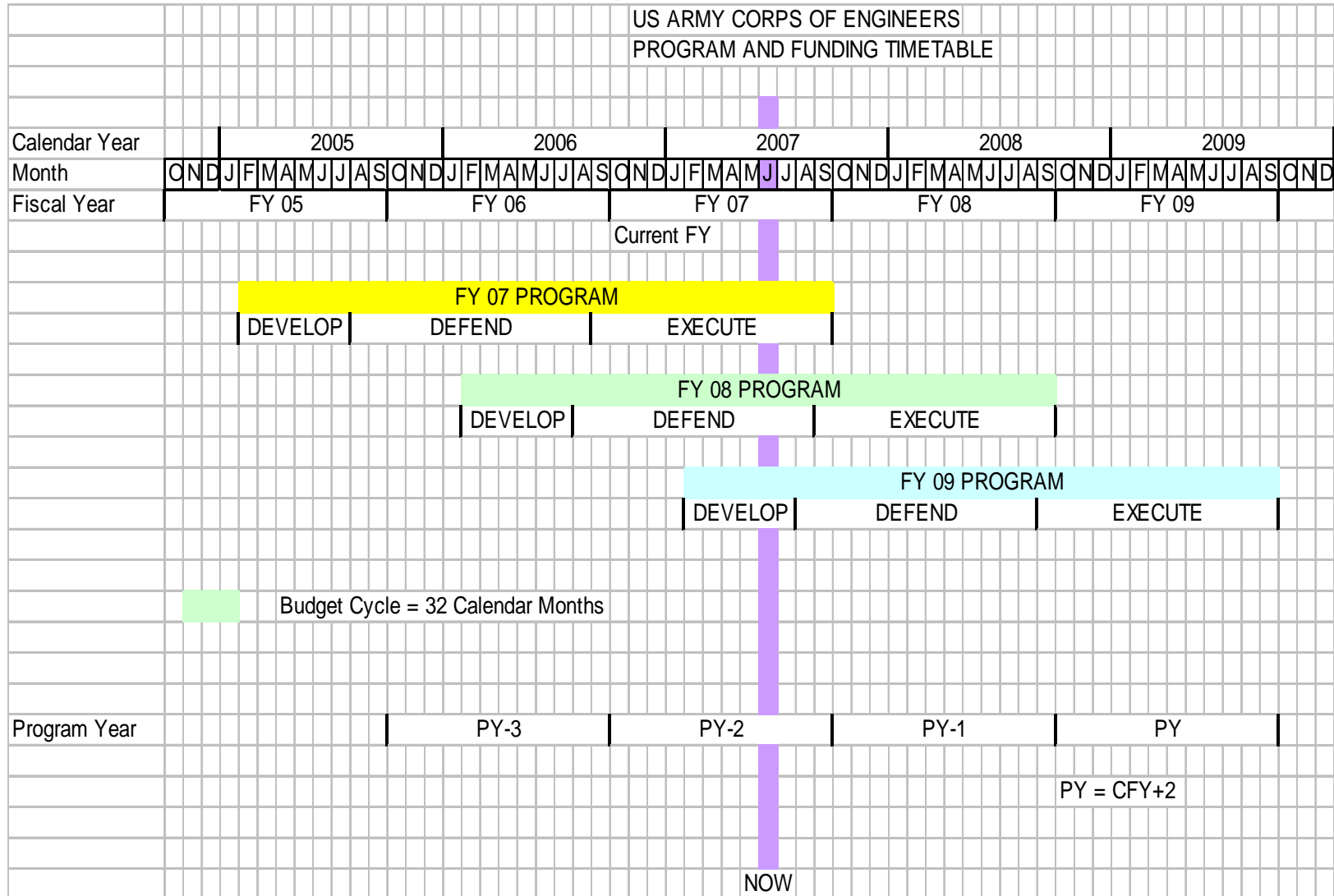
20 September 2007





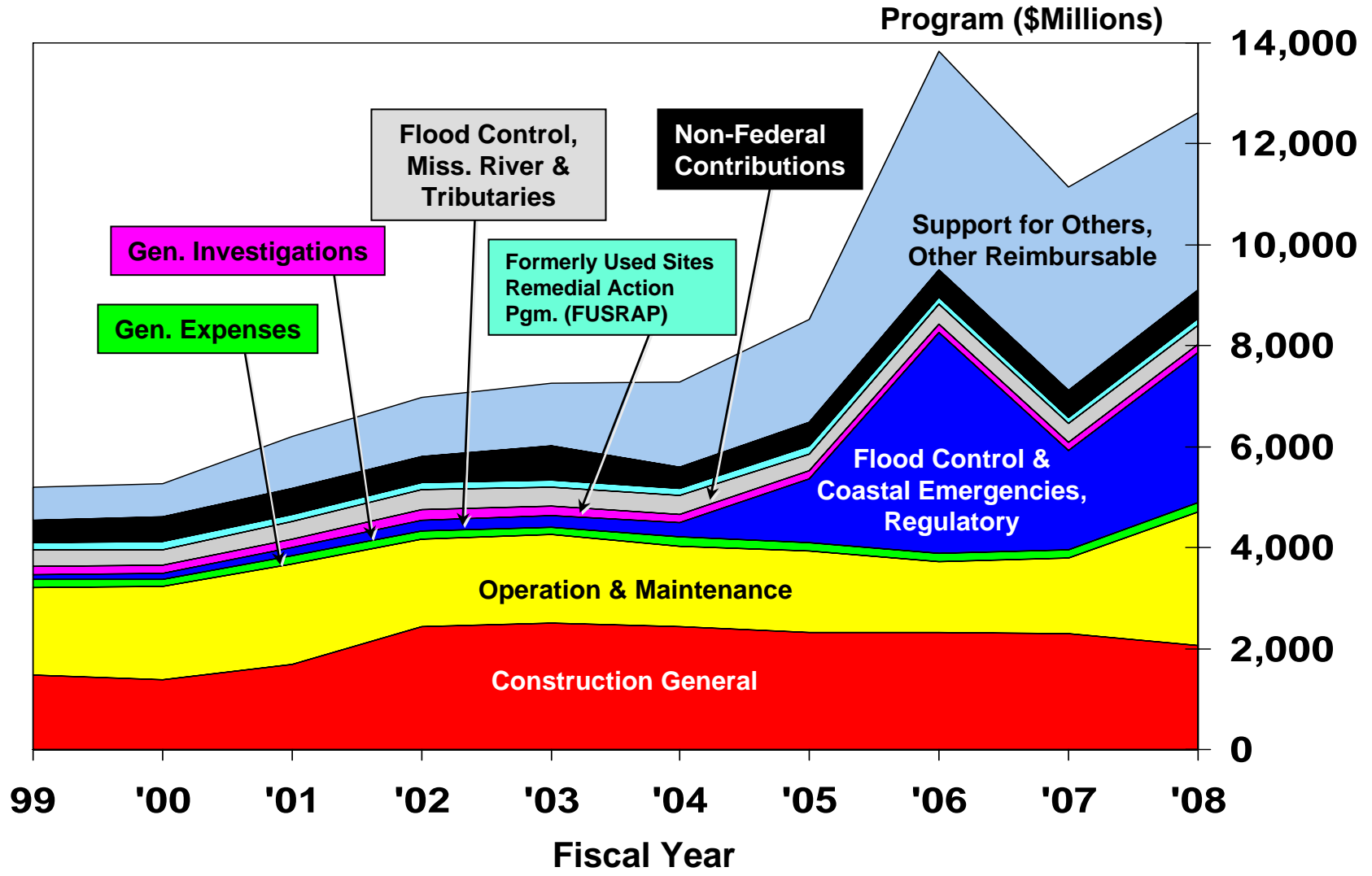
US Army Corps of Engineers®

Develop, Defend, Execute: 3 Budgets at Once



Civil Works Program Trends

FY99-08



Program Comparison

	FY07 Bud	FY07 WP	FY08 Bud <u>\$ Millions</u>	FY08 House	FY08 Sen
Investigations	94	163	90	120	172
Operation & Maint.	2,258	1,975	2,471	2,655	2,292
Construction	1,555	2,336	1,523	2,009	2,059
Miss. River & Tribs.	278	397	260	278	375
Regulatory Program	173	159	180	180	180
F.C. & Coastal Emerg.	81	0	40	40	50
F.U.S.R.A.P.	130	139	130	130	140
Expenses	164	167	177	171	175
<u>ASA(CW)</u>	<u>5</u>	<u>4</u>	<u>0</u>	<u>6</u>	<u>5</u>
Total	4,738	5,340	4,871	5,589	5,448

Systems Budgeting: 5-Year Development Plan



- Based on President's budget & guidance
- Presents 5-year plan for FY 2008-12
- Purpose - present informed discussion and decision making on program funding
- Presents how watershed-integrated management will be pursued
- Performance based - discusses how funding over 5-year period will achieve goals in Civil Works Strategic Plan
- Provides strategic framework for future Program direction

Water Resources Development Act (WRDA)

No WRDA Since 2000

\$22 Billion in New Authority

House Passed

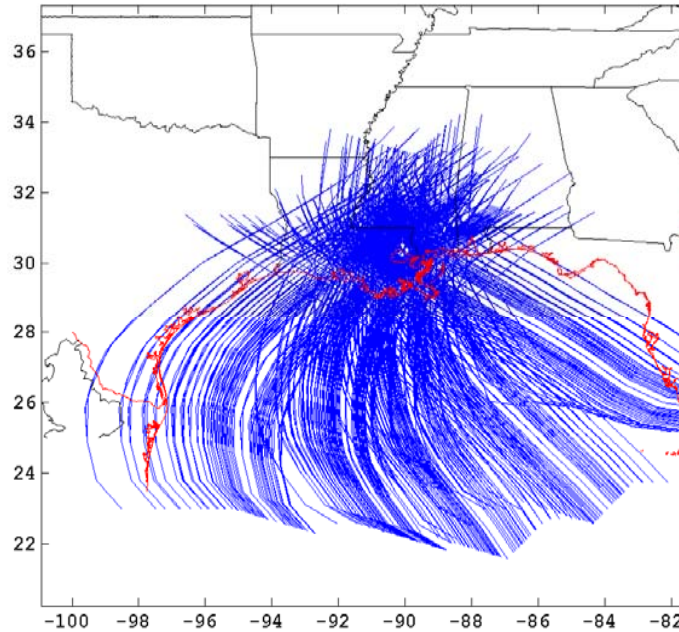
Close to Senate Passage?

Threatened Presidential Veto



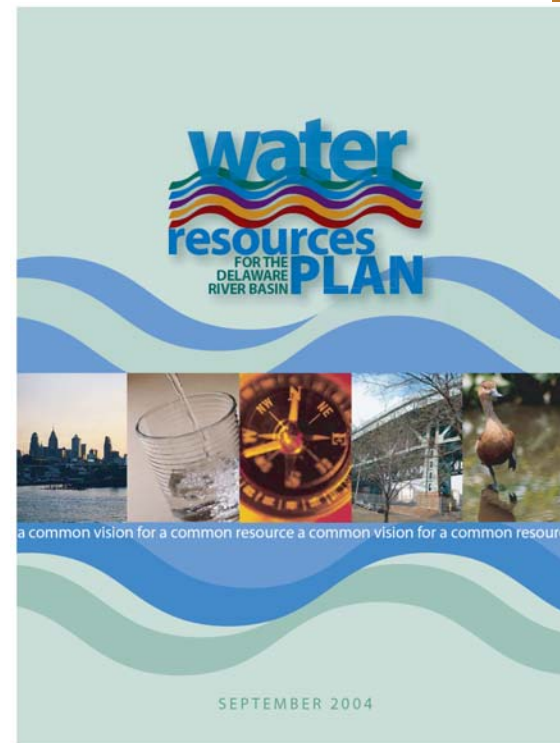
USACE's Actions for Change

- Comprehensive systems approach
- Risk-informed decision making
- Communication of risk to the public
- Professional and technical expertise



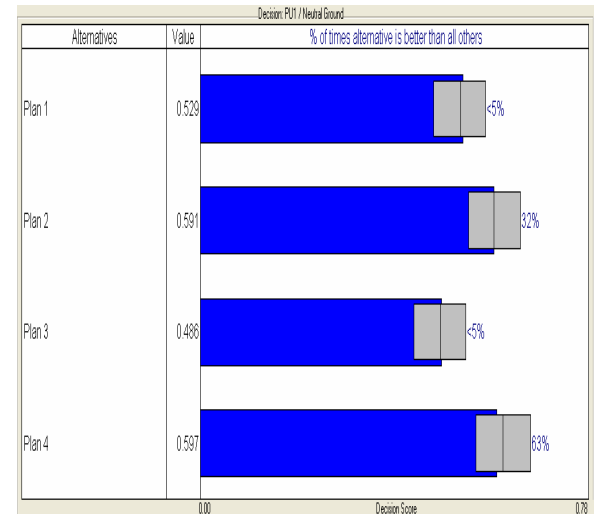
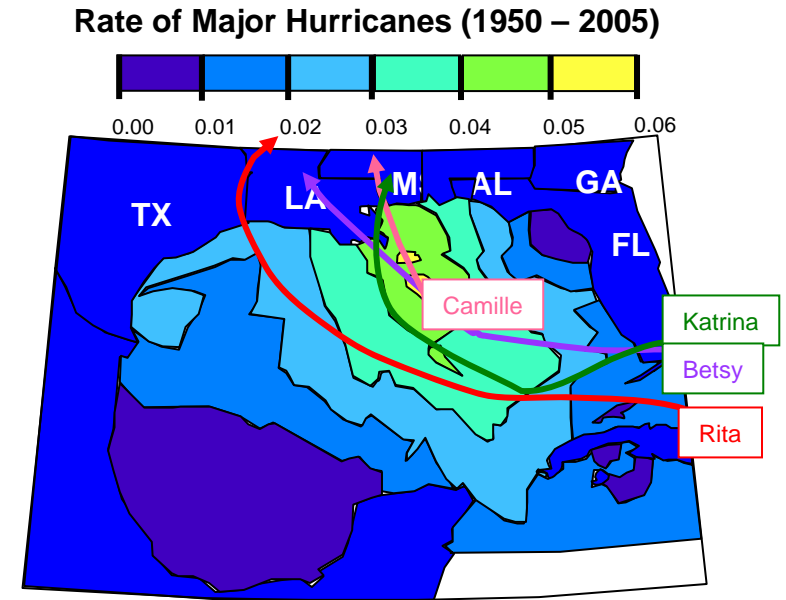
Comprehensive Systems Approach

- Multi-component, multi-dimensional problems
- Risk-based formulation and evaluation of alternatives
- Expanded stakeholder involvement
- Multi-purpose
- System solutions
 - Structural/non-structural
 - Federal, State, local
 - Social components



Risk Informed Decision Making

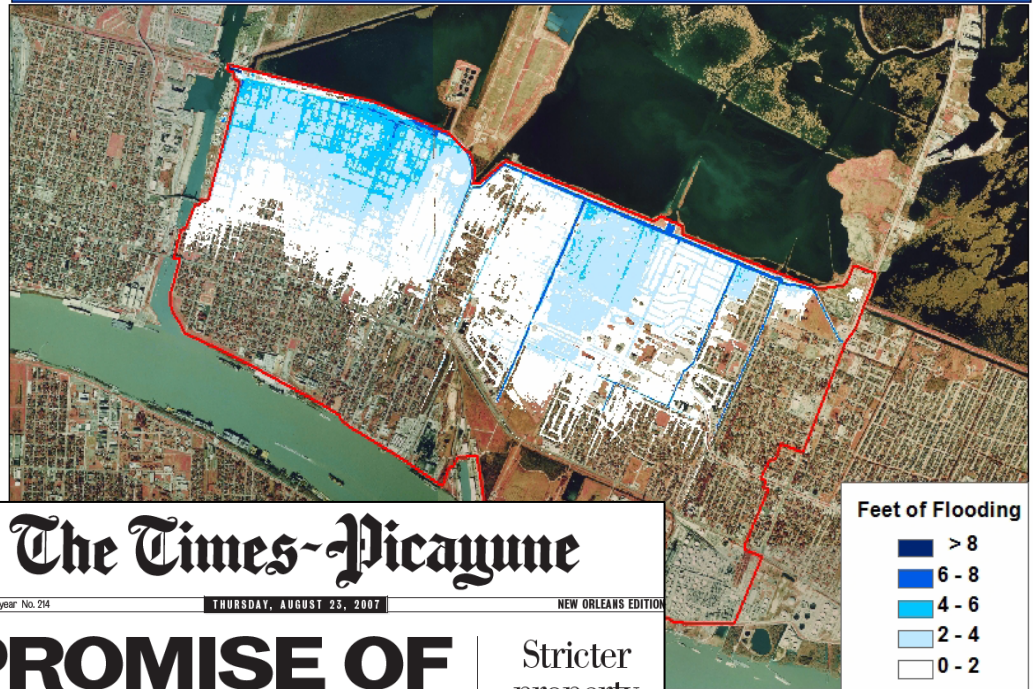
- Expands options beyond National Economic Development
- Promotes transparency in decision making
- Provides process that facilitates interaction with partners and stakeholders
- Facilitates anticipatory engineering and adaptive planning



Risk Communication

- Convey what risk remains, no matter what protective measures are in place
- Educate public as to actual flood risk they face every day so they can take responsibility for own safety
- Work with local governments so risk can be included in urban planning decisions

With 100-year level of protection, you have a 1% chance every year of flooding this deep from Hurricanes in the Lower 9th Ward / Arabi



The Times-Picayune
THURSDAY, AUGUST 23, 2007
NEW ORLEANS EDITION

PROMISE OF PROTECTION

New maps show major reduction in flooding risk during 100-year storm
"Worst-case scenario" assumes drainage pumps not operating
CORPUS SAYS \$7.6 BILLION MORE NEEDED TO FINISH THE WORK BY 2011

By Mark Schellfstein and Sheila Orlovett Staff Writers

When the Army Corps of Engineers completes construction of a new flood protection system in 2011, vast areas within the new protection system will see dramatically reduced flooding risks, according to new maps released Wednesday.

The risk maps, which factor in levees and flood-gate improvements designed to protect New Orleans from a 100-year hurricane — about the strength of Hurricane Rita — show broad swaths of



By Frank Donze Staff Writer

Laws governing the upkeep of New Orleans homes and businesses damaged by Hurricane Katrina could soon get a lot tougher, Mayor Ray Nagin said Wednesday.

With the approach of the storm's second anniversary next week, Nagin said he plans to propose a new law that would require the owners of vacant and unoccupied buildings to begin restoring their properties or face the consequences.

Nagin said he will push for the best requirement that has been in place for the past two years — to secure flood-or-wind-damaged property, clear debris and keep items moved — to be replaced by an overhauled city building and housing code that demands considerably higher standards.

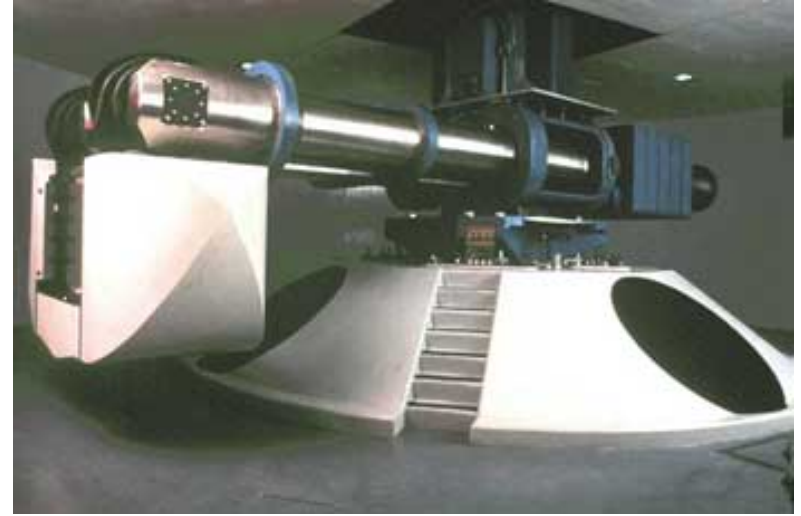


Mayor Ray Nagin
"You need to have windows, you need to have a door"



Professional & Technical Expertise

- State-of-the-art methods and technology to provide safe, efficient, and quality projects
- Superior workforce capability
- Emphasis on training and development
- Research linked to future needs
- Balance investment between basic and applied research
- Field involvement in setting priorities, using technology





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Water Resources – the Situation

- Nation faces large and growing water resources challenges:
 - Population pressures
 - Changes in national priorities and values
- Water will be significant factor in U.S. economic prosperity and quality of life.



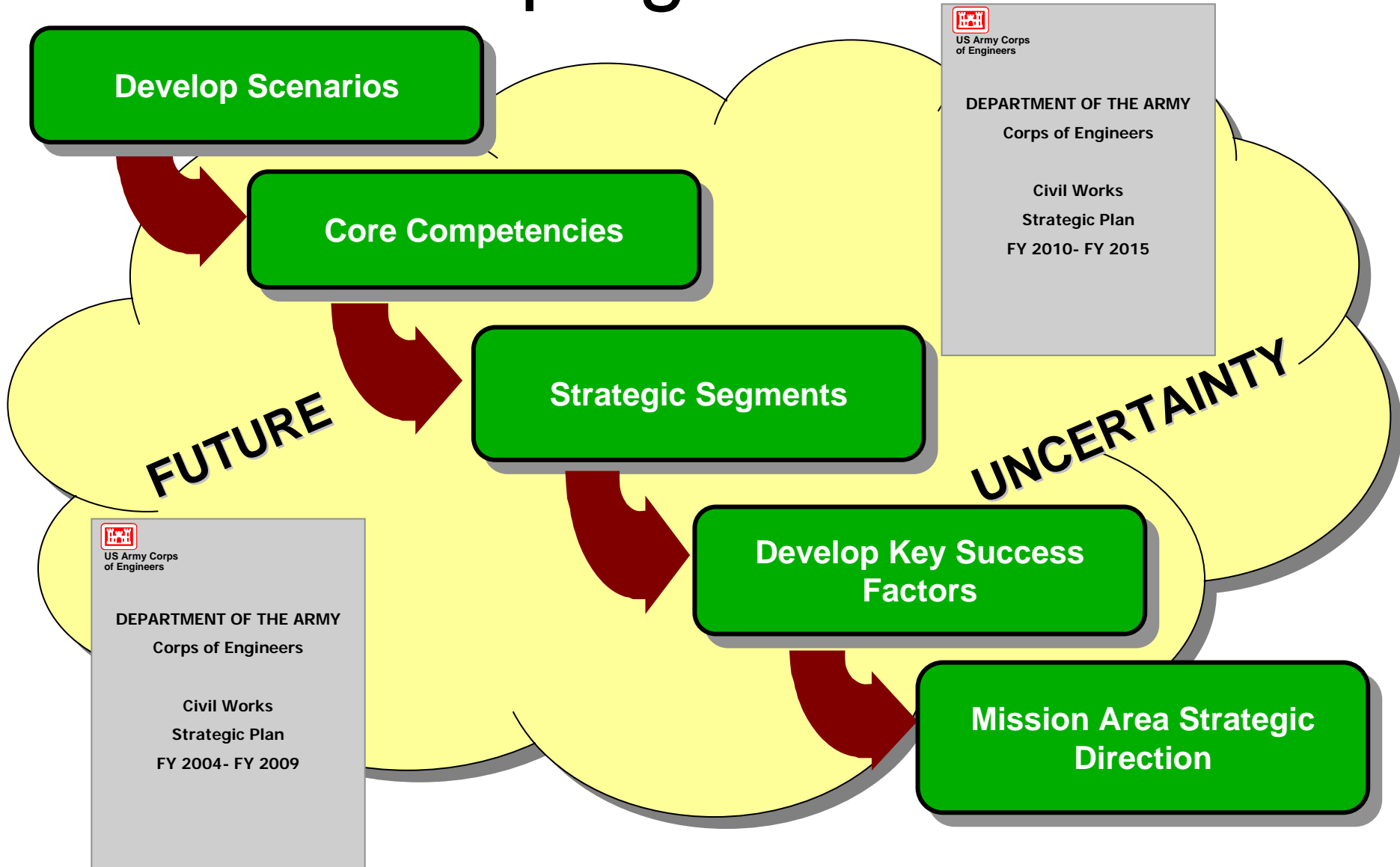


The Edge of Disaster

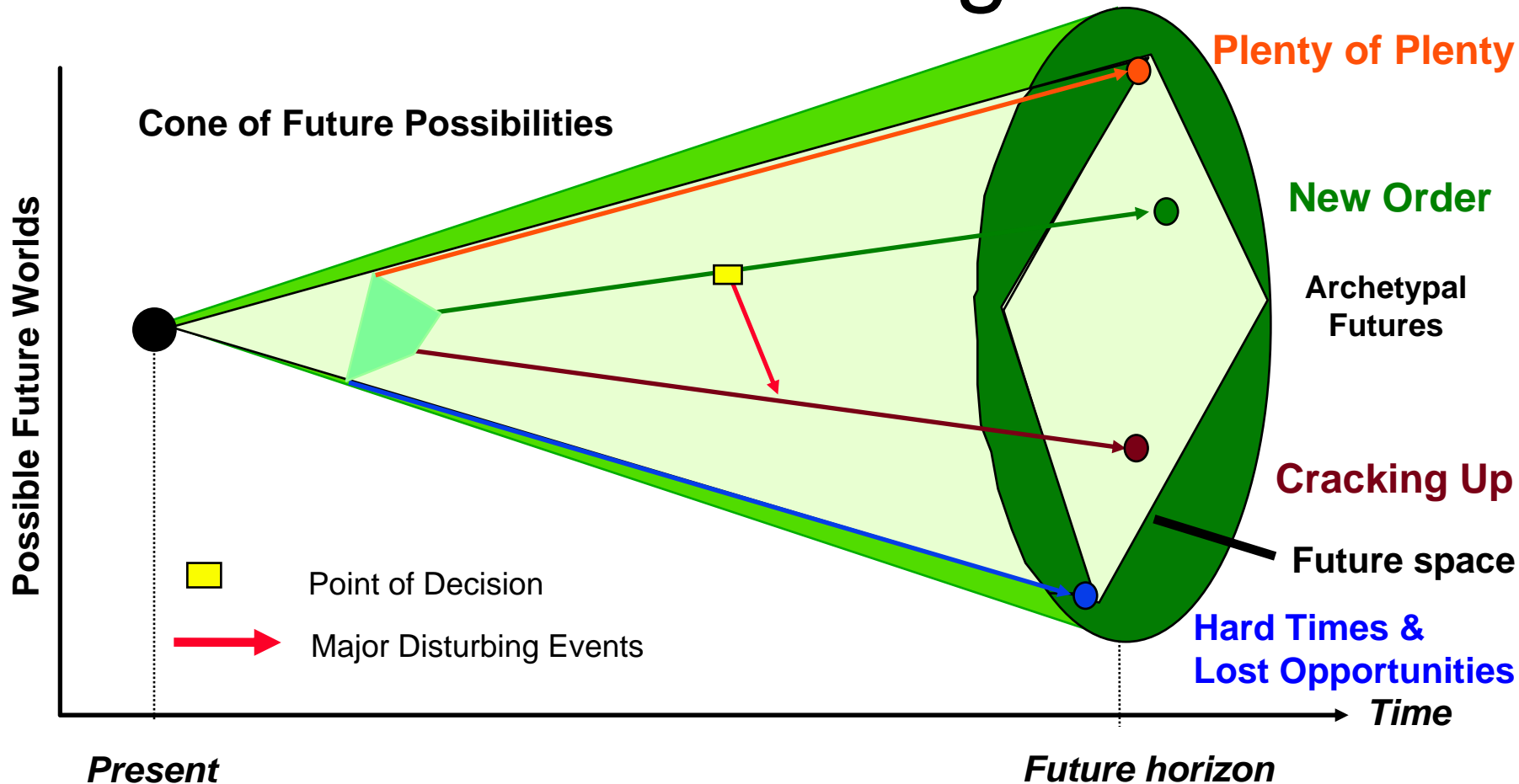
- *“Americans are in denial when it comes to facing how vulnerable our Nation is to disaster, be it terrorist attack or Act of God.”*
- *“Our growing exposure to man made and natural perils is largely rooted in our own negligence as we take for granted the infrastructure handed down to us by earlier generations. Once the envy of the world, our infrastructure is now crumbling.”*
- *“Resiliencymust now become our national motto.”*

“The Edge of Disaster” Stephen Flynn

CW Strategic Planning: Shaping the Future



Scenario-Based Strategic Planning



Scenarios do not cover all eventualities, but discover the boundary zone of the future outcomes and expand management's thinking horizon.

Civil Works Scenarios: Some Possible Futures for Water Resources

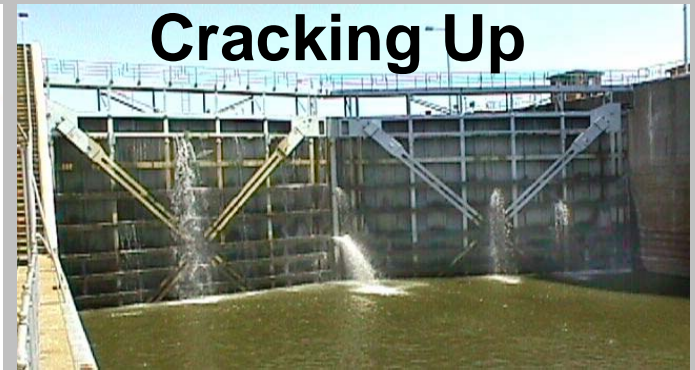
U4 Is water infrastructure adequate to satisfy multiple social demands in 2035?

Infrastructure fully satisfies social demands

Infrastructure is inadequate for demands

U10 What will be the frequency and effect of disasters on U.S. environment and population by the year 2035?

Low frequency and severity








High frequency and severity





Civil Works Strategic Segments

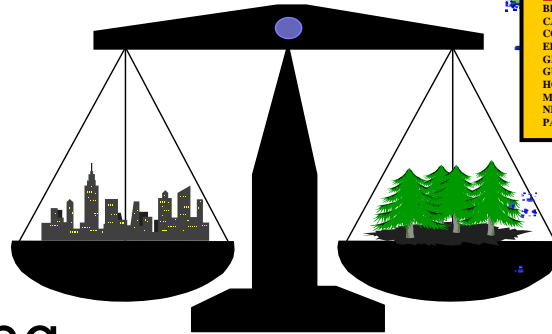
		Scope of Activity		
		Local Project Fragmented	Regional	National/ International/ Integrated
Customer Sophistication/ Capability	Low	A – Do It For Me 		D – Save Me 
	Medium		C – Partner With Me 	
	High	B – Cater to Me 		E – Complement Me 



US Army Corps
of Engineers®

Core Competencies: What Sets Us Apart

- Integrator
- National/global perspective
- Balancer
- Systems thinking
- Diverse technical/scientific workforce
- Marshall capabilities
- Integrated delivery



US Army Corps of Engineers
Global Engagement
Countries Supported: 100+



Key Success Factors:

Where We Need To Be

- Partnerships and alliances
- Leadership in water resources policy
- Comprehensive, sustainable water resource solutions
- Quality workforce
- Institutional knowledge, standards, technical excellence
- Transfer of technologies
- Leverage resources
- Infrastructure to meet contemporary needs
- Broad portfolio of missions
- Risk informed decisions
- Mobilize full capability of Corps team
- Expand and contract operations rapidly





Robust Strategies

- **Redefine Roles and Responsibilities (Federal/State/Local).**
- **Institutionalize an Effective Leadership Structure for Water Resources to Promote Long-term Planning.**
- **Foster Strategic Alliances.**
- **Think and Work within a Systems Framework.**
- **Educate and Communicate about Risk.**
- **Promote an Environmental Consciousness and Conscientiousness.**
- **Adopt Innovative and Flexible Investment Mechanisms and Financing Strategies.**
- **Maintain Sufficient Investments in Science, Technology, Research and Development, and Technology Transfer.**
- **Use a Life-Cycle Approach to Infrastructure Planning, Management, and Maintenance.**
- **Maintain Technical Expertise and Disaster Preparedness.**

The Future of Civil Works

- **It's bright**
- **National impact is significant**
- **The great thing about the future is we can change it!**

