

NEXTOR Role in NextGen

2007 NAS Performance
Workshop, Asilomar

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Federal Aviation
Administration



Topics

- **A Decade of NEXTOR**
- **The Challenge of NextGen**
- **“Sailing Orders” for NEXTOR**
- **Next Steps**



A Decade of Accomplishments

- **A Unique COE**
 - Funding mechanism
 - Successful Ten Year Evaluation
- **Many research successes**
 - Safety Research
 - Congestion Pricing
 - Strategy Simulator
 - Performance Metrics
 - Many, many, others.....



The NextGen Challenge

- **Behavior of the NAS poorly understood**
- **Competing constituencies (GA, Biz, Airlines)**
- **Complex system not amenable to “sound biting”**
- **One or two promising elements in the initial stages (SBS, SWIM)**
- **Not clear how we do the rest....**



The NextGen Challenge (bottom line)

- ***A fundamentally unplannable process***



NEXTOR's Role in NextGen

- **How does the system actually function?**
 - Much common knowledge unsupported by data
- **What changes should be made?**
 - Modeling and simulation will be the only way to design NextGen
 - New models and approaches will be required
- **Did the change work?**
 - Performance metrics are the bedrock of NEXTOR's contribution



“Sailing Orders” for NEXTOR

- **Project Funding**
 - FAA offices
 - Other JPDO agencies
- **Workshops**
 - A key feature
- **Other education initiatives**



Next Steps

- **What does it mean to “graduate”**
- **New agreement**
- **Change in Sponsorship**



Questions and Discussion

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