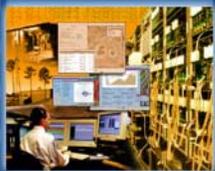


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Welcome!



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This Meeting:

Goals:

- Apprise Committee members of requirements-gathering status
- Review Timeline to May 1
- Review Business Case and Project Initiation Processes
- Sample In-Building Case Study – Anne Arundel County



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This Meeting:

Agenda:

- Welcome
- Requirements Status
- Timeline
- Business Case Process
- Project Initiation Process
- In-Building Case Study
- Summary and Next Meeting

Greg Patterson

Robert Pedersen,
Richard Reynolds

Bryant Baker

Anthony Lazzaro

Bryant Baker

Normand Boucher

Greg Patterson



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Requirements Status

Coverage in Delaware

- **Determining coverage in Delaware**
 - Primary Goal - 100% of buildings in SOD
 - Alternate Goal - Some percentage or all critical buildings or other
- **Distributed maps identifying critical buildings and requested input by Nov 18**
 - Received Courts - Nov 18
 - Received Kent County - Nov 18
 - NCC Fire Chiefs meeting - Nov 19
 - Sussex Fire Chiefs meeting - Nov 20
- **Need all input by Dec 11**



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Requirements Status

Coverage inside buildings

- **Determine coverage inside buildings**
 - Primary goal – 100% of all areas inside buildings
 - Secondary goal – Some percentage of critical areas or other
- **Challenges**
 - Elevators Basements Tunnels
 - Bank Vaults Jails X-Ray Rooms
- **Need category of areas inside buildings identified by December 11**
- **May require a phased solution of towers, BDA's and VRS's**





Requirements Status

Dispatch Consoles

- **Need input to ensure specifications meet user expectations**
 - Identification of fall-back centers
 - Identification of additional consoles needed
- **Met with twelve Dispatch Centers - Nov 12**
- **Need Rehoboth, TMC, and DRBA input by Dec 11**
- **Significant input**
 - RECOM and SUSCOM moving
 - Short term and long term fold-down locations being reconsidered
- **Need to “nail-down” everything by Jan 8**

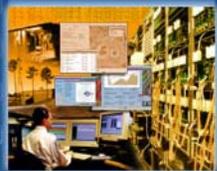




Requirements Status

Interstate Interoperability

- **Need input to develop specifications**
 - Identification of 911 centers in surrounding jurisdictions
 - Identification of other interstate needs
- **Need identification of 911 centers in surrounding jurisdictions by Dec 11**
- **Need identification of other interstate needs by Dec 11**





Requirements Status

Intrastate Interoperability

- City of Wilmington upgrades or replaces their system?
- Add city users to SOD system?
- Combination of both options, such as an IR site?
- Meeting with City - Nov 21

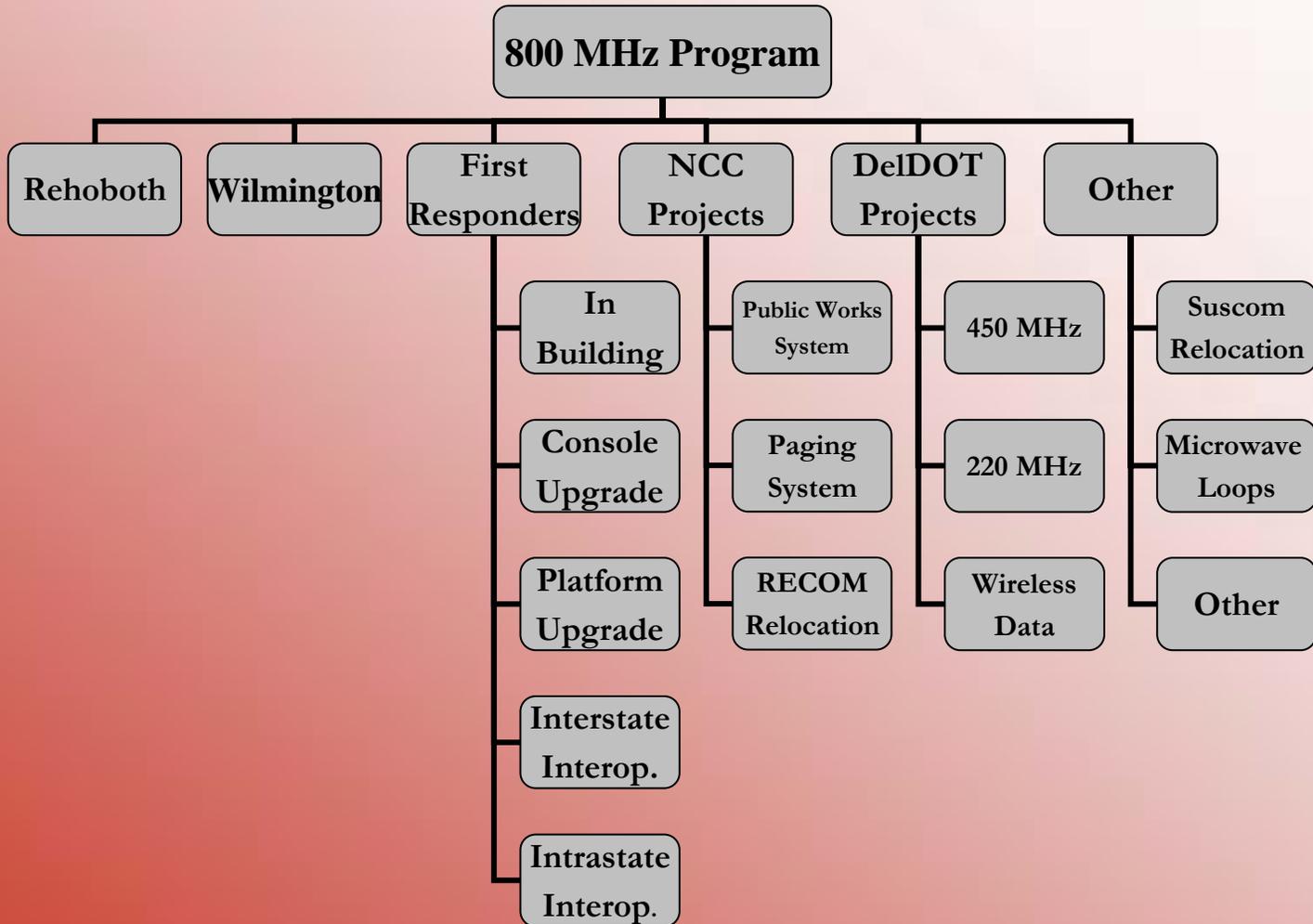


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Strategic Planning



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Technical Team

- **Charter/Mission:** Facilitates the implementation of the necessary technology towards meeting user requirements and expectations for 800 MHz program work.
- **Roles and Responsibilities (Highlights):** Business Case, Project Initiation Phase:
 - Collect and Classify user requirements at the System level;
 - Generate a System Level Specification based upon the final User Requirements issued from the NextGen Committee;
 - Modify the System Specifications as necessary for NextGen Committee approval;
 - Generate a Component Specification for each Project identified by the Project Management Team, derived from the approved System Specifications;
 - Modify the Component Specifications as necessary for NextGen Committee Approval;
 - Utilize creative approaches and other municipality/state best practices to create a “suite” of potential in-building design solutions.
- **Team Members:**
 - DTI -- Richard Reynolds, Colleen Gause, Dan Marsh, and Bryant Baker.
 - DIVCOM – Bob Gates, Dwayne Kelly, Jim Friel, Ron Wells, Paul Smack.
 - RCC Consultants – Jeff Martin and Norm Boucher.



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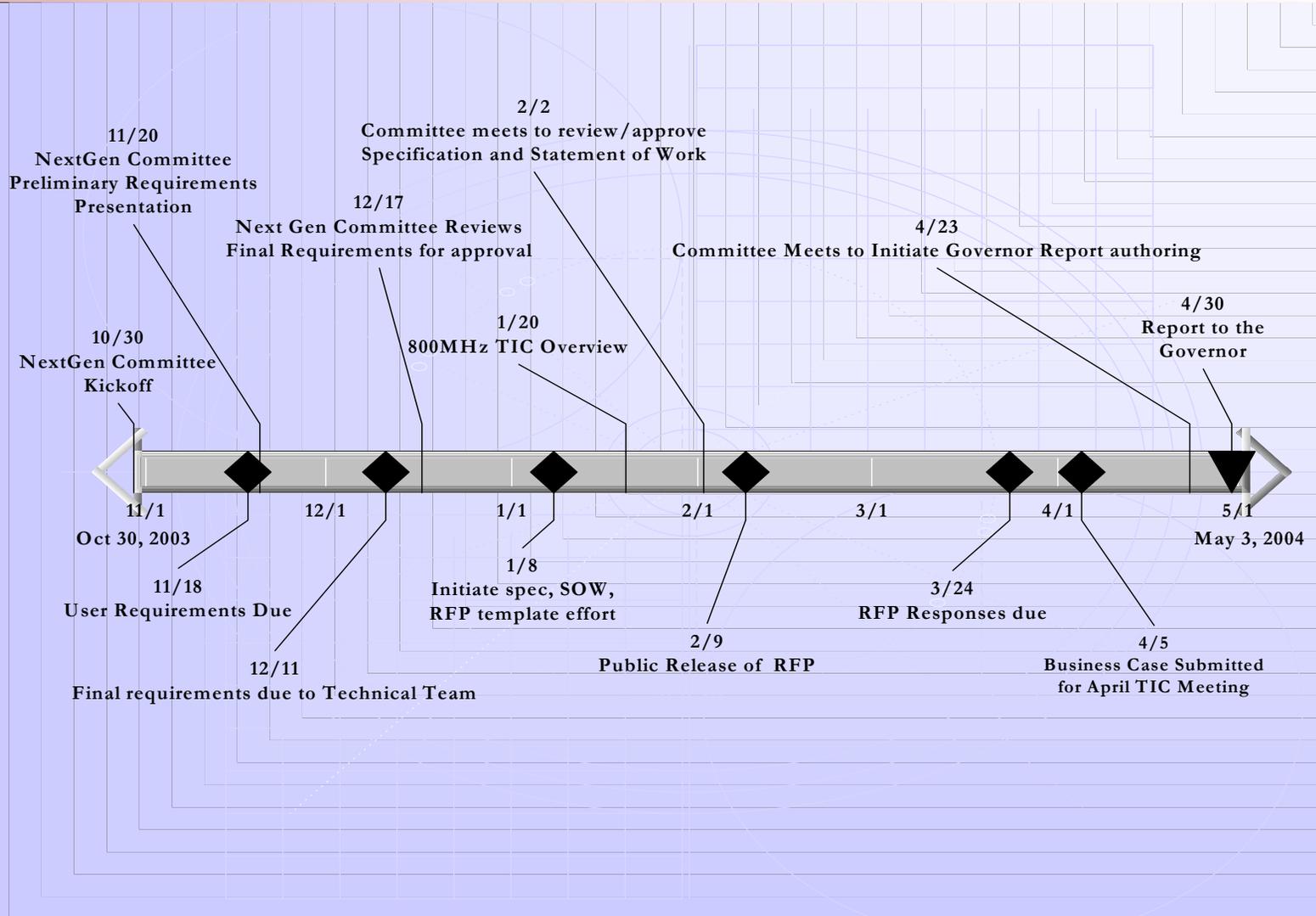
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Our Timeline:



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Business Case Process

- 1st Step of I.T. Project
- Entry point to State Budget Process
- Technology Investment Council Recommendation
- Notification to DTI



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Business Case Process

Technology Investment Council Recommendation

- Summarize Requirements
- Think through:
 - Scope
 - Risk
 - Partners
 - Total Cost of Ownership
- iTIC Review
 - Technical Feasibility
 - Technology Standards
 - Project Planning
 - Change Management
- TIC Review
 - TIC Recommendation



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Project Initiation Process

Triggered by Funding Availability

- Requires Business Case process to be completed
- Adds detail to Business Case

Lays Groundwork for Project Planning

- Main Deliverable – the Project Charter
- Charter reviewed by Stakeholders for agreement





Project Initiation Process

Project Charter Contents:

- Project Goals
- Project Scope
- Project Requirements (the Specification)
- Project Deliverables
- Project Constraints
- Project Roles and Responsibilities



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Project Initiation Process

Present Status:

- Awaiting AG word on DTI involvement with Rehoboth;
- Several other potential projects have been identified since last meeting, for example:
 - Suscom Relo
 - NCC Public Works
 - DelDOT Wireless
 - Recom Relo





In-Building Case Study - Methodology

Identify Critical Buildings

- Identified by Public-Safety Personnel
- Generate Building Database Using Existing Local Databases & Local Knowledge
 - e.g. local GIS maps, existing\future construction, Zoning maps, E9-1-1 database, heavy commercial buildings, malls, industrial parks, etc.
- Classify Buildings
 - Four Critical Building Classifications





In-Building Case Study - Methodology

Critical Building Classification

- Critical-1 Buildings
 - Includes constantly high life-safety risk buildings; occupants could develop complications with evacuations in time of emergencies
 - These include: schools, hospitals, senior centers, airports, assisted living & nursing homes, government buildings, State Capital\Administrative buildings



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In-Building Case Study - Methodology

Critical Building Classification, con't.

- **Critical-2 Buildings**
Includes **Health Departments, Fire & Police Depts., general government buildings, malls, shopping centers, hotels, libraries**
- **Critical-3 Buildings**
Includes **recreational and parks facilities, and other government maintenance facilities**
- **Critical-4 Buildings**
All other commercial buildings.





In-Building Case Study - Methodology

Coverage Requirement for Critical-1 Category Buildings

- Coverage is Mandatory:
 - Buildings identified by users
 - Coverage in above-ground floors only
 - Primary coverage design shall be provided by the tower network as much as possible
 - Requires efficient & cost-effective network design
 - Must balance the deployment of towers and the use of BDA building treatment



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In-Building Case Study - Methodology

Coverage Requirement for Critical-2 and Critical-3 Category Buildings

- Coverage not required as part of contract
- Uses “engineers approach” in predicting coverage

Identifies coverage performance prior to constructing network



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In-Building Case Study - Methodology

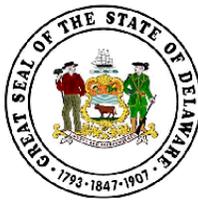
Utilize predictive performance analysis:

- Based on building database
- Estimates the level of coverage present in these buildings
 - Must use prior measurement data to predict the level of coverage; may require additional testing to identify coverage level
 - Again, strategic siting & positioning of towers play a major role
- Identifies buildings that may require signal enhancement treatment [BDA, leaky cable, vehicular repeaters, etc.]



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Summary

Next Meeting: Wednesday, December 17, 2003. Time/Place to be announced. Thank you!



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