

CMMI – What a Difference a Sponsor Makes!

13 November 2002

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Agenda

- **Assessed Organization – Garland TX**
- **CMMI Timeline**
- **Raytheon Process Integration**
- **Organize for Success**
- **Garland CMMI Team Structure**
- **Executive Steering Team Charter/Membership**
- **Deployment Model**
- **Action Team Structure**

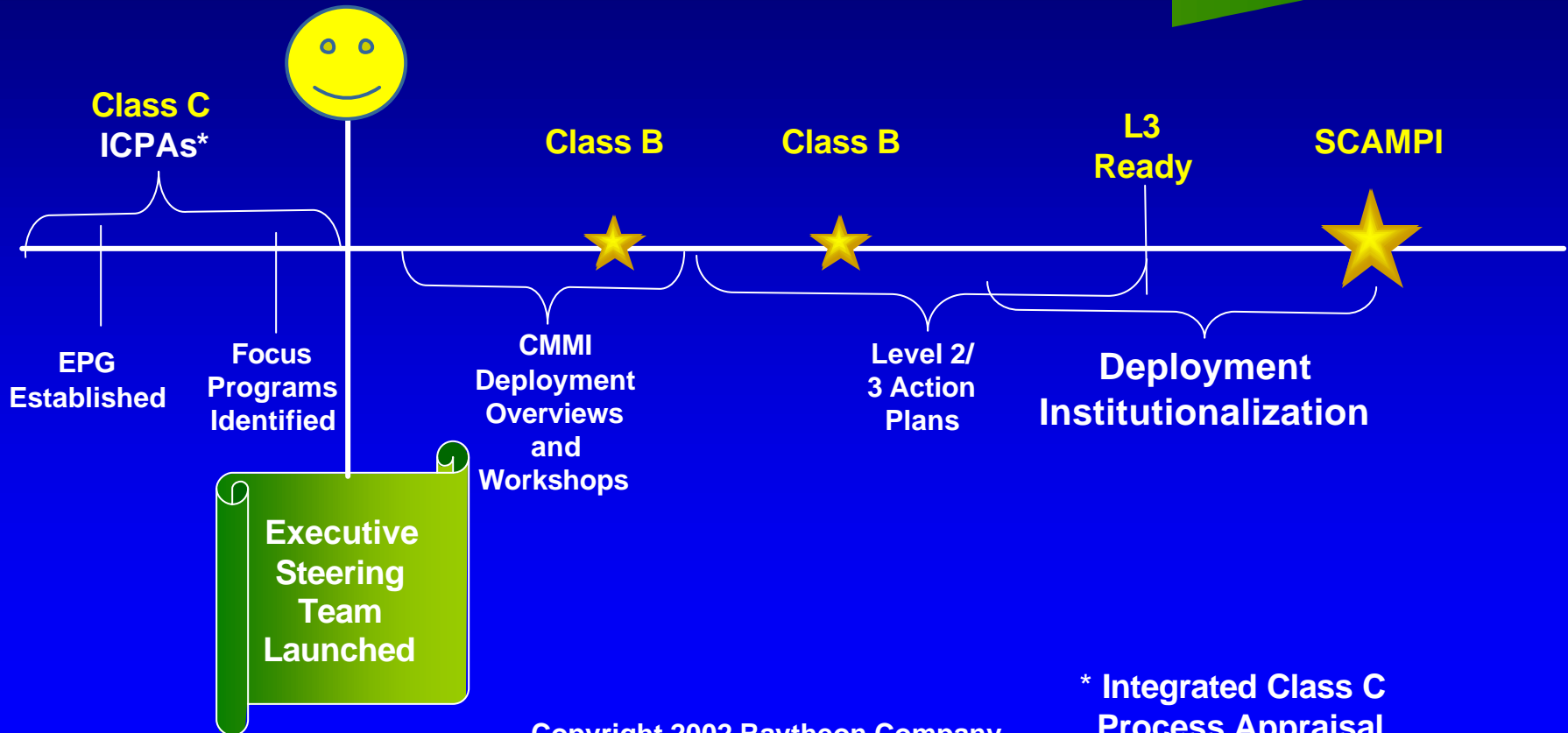
Organizational Characterization

- **Organization: Garland TX site (Dallas suburb)**
- **Component of larger business unit**
- **Site population: 2000**
- **Engineering population: 1100**
- **SW Engineers: 530**
- **System Engineers: 370**
- **Business base: SW intensive systems**
- **10 year history of SW (CMM) and SE (SECMM & EIA-731) process improvement**

Garland CMMI Level 3 Timeline

Raytheon Six Sigma (R6s)

Visualize...Commit...Prioritize.....Characterize.....Improve.....Achieve



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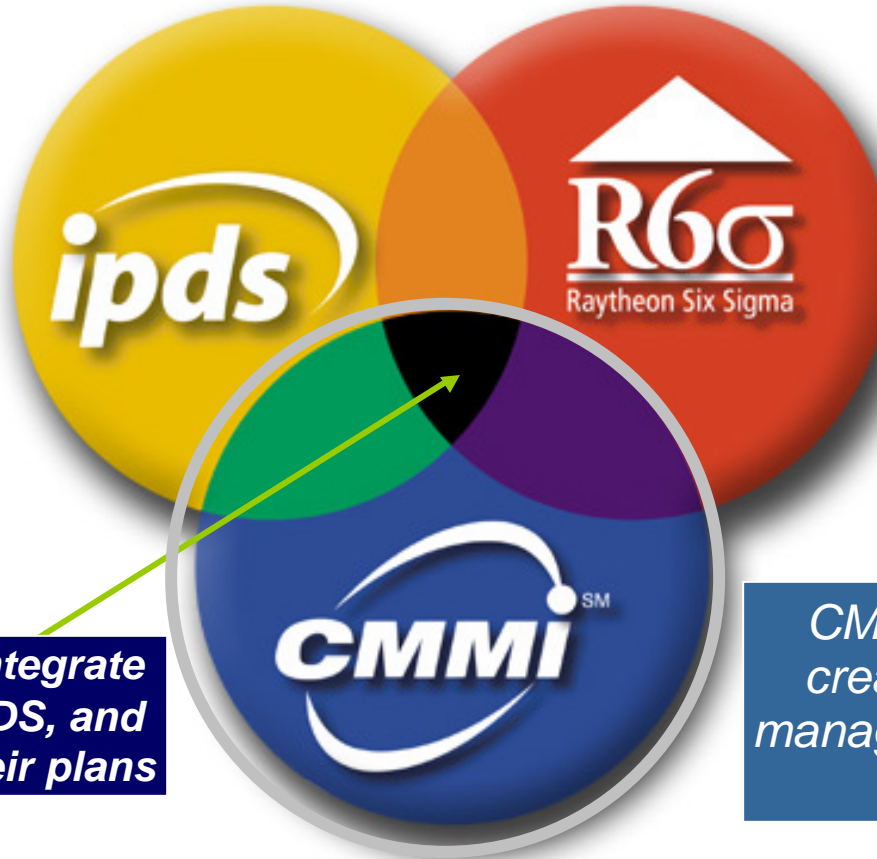
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* Integrated Class C Process Appraisal

IPDS, CMMI, and R6σ are Tightly Coupled

Raytheon

IPDS provides an integrated set of best practices for the entire product development life cycle through a just-in-time tailoring process.



R6Sigma is our business strategy. It guides us to use CMMI and IPDS as tools to deliver value to customers and integrate industry best practices.

Programs integrate R6Sigma, IPDS, and CMMI into their plans

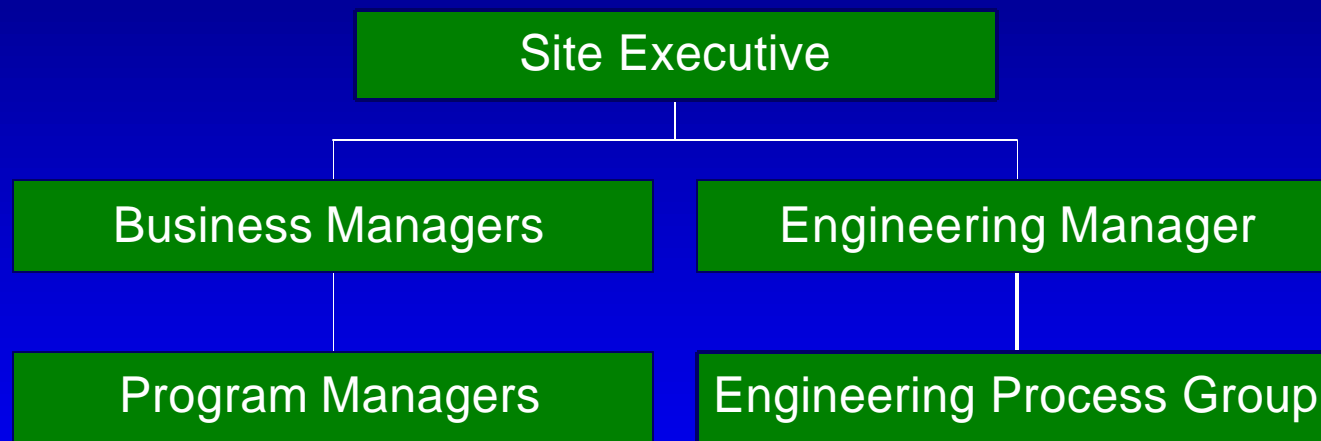
CMMI is a model for creating, measuring, managing, and improving processes.

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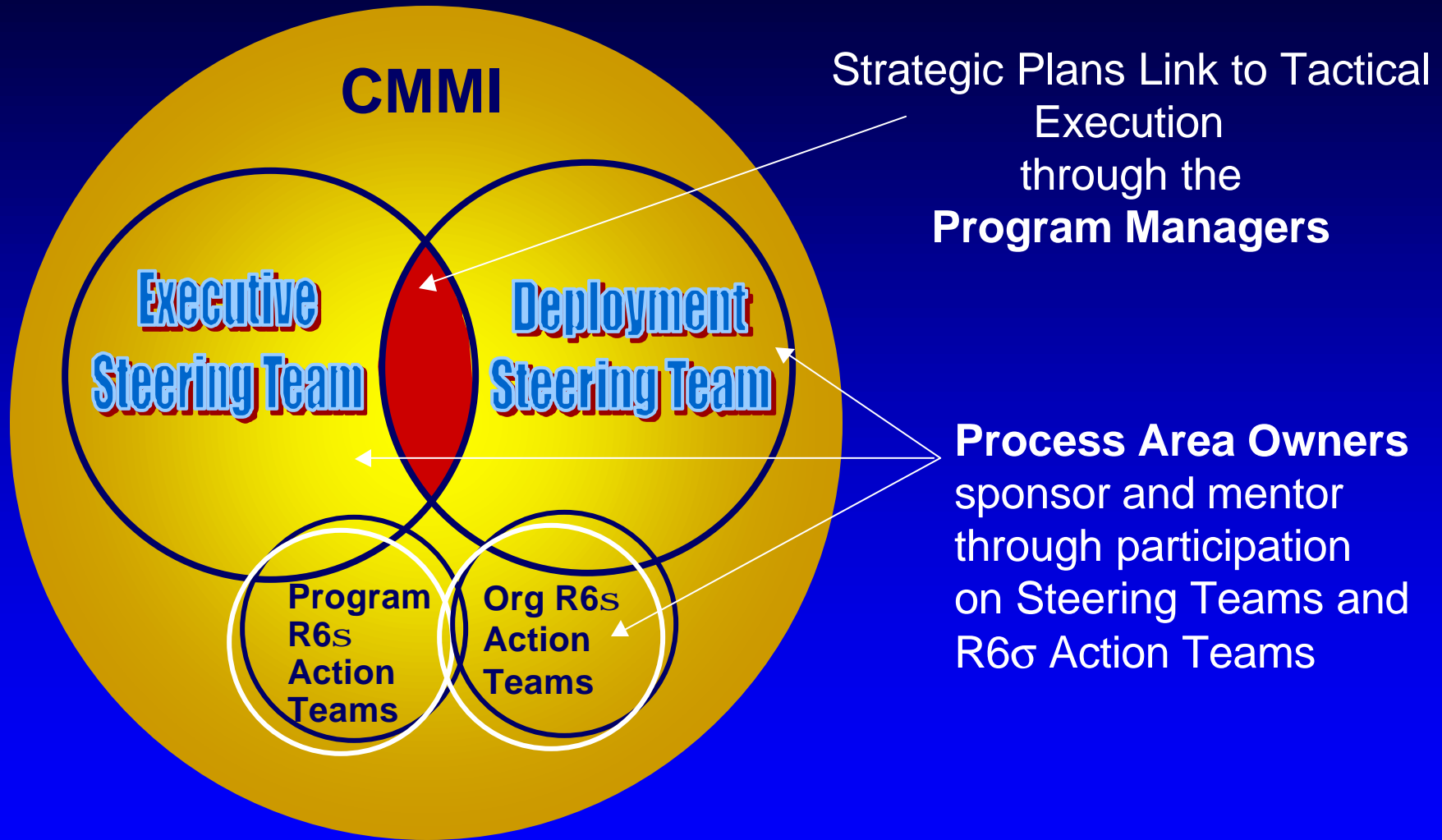
Each plays an integral role in the success of programs, projects and organizations
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Organize for Success

Early Major Step: Established the EPG to focus on maturity of all engineering processes



CMMI Deployment Teams



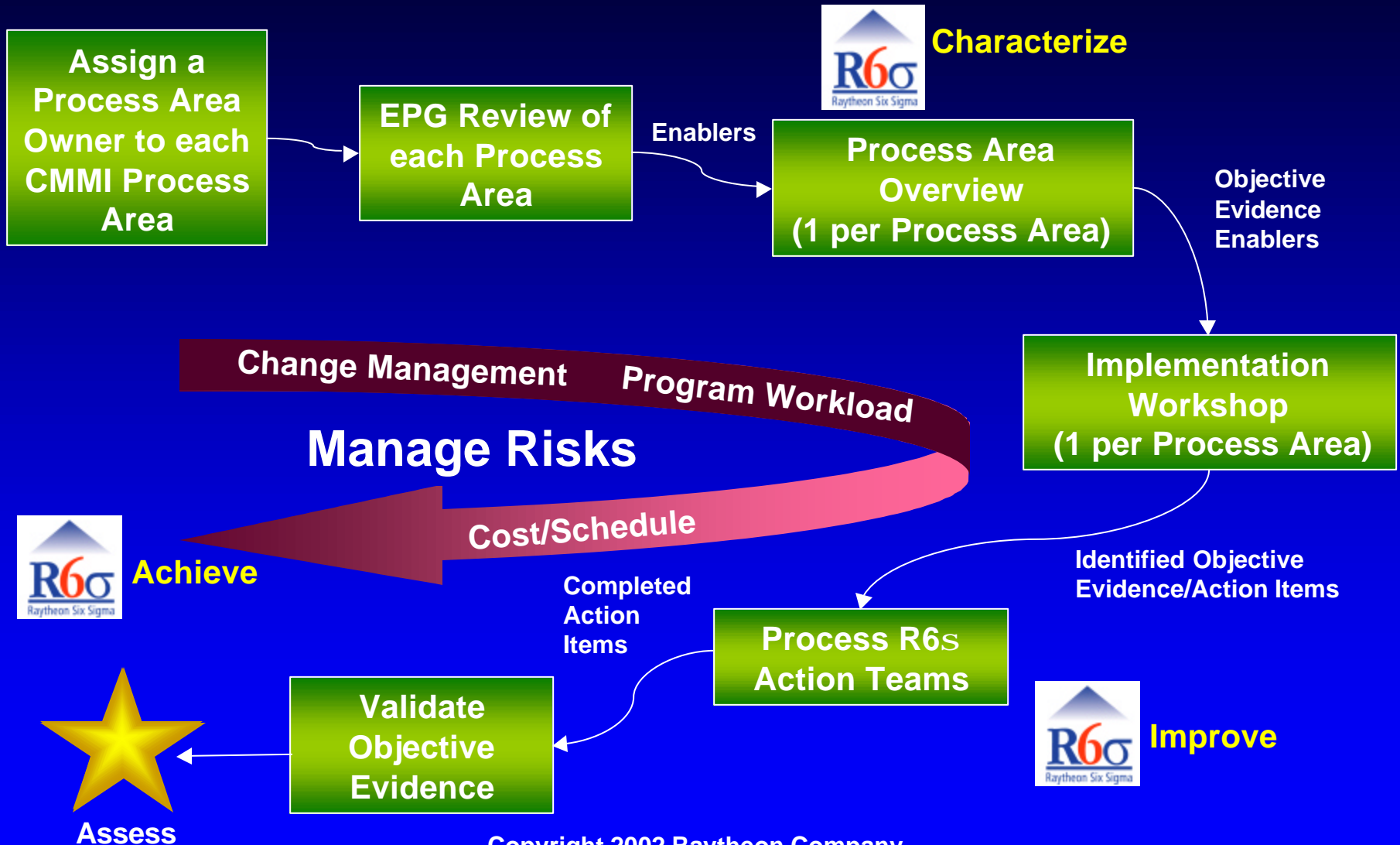
IGS/NS(Tx) CMMI Executive Steering Team Charter

- **Sponsor CMMI deployment across the enterprise**
- **Establish the goals for strategic process improvement for Garland and all IGS sites**
- **Lead the enterprise to achieve CMMI Level 3 through the integrated deployment of R6s, Integrated Product Development System (IPDS) and CMMI**

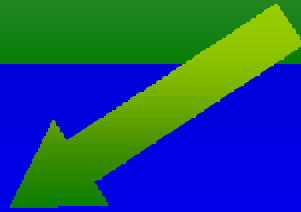
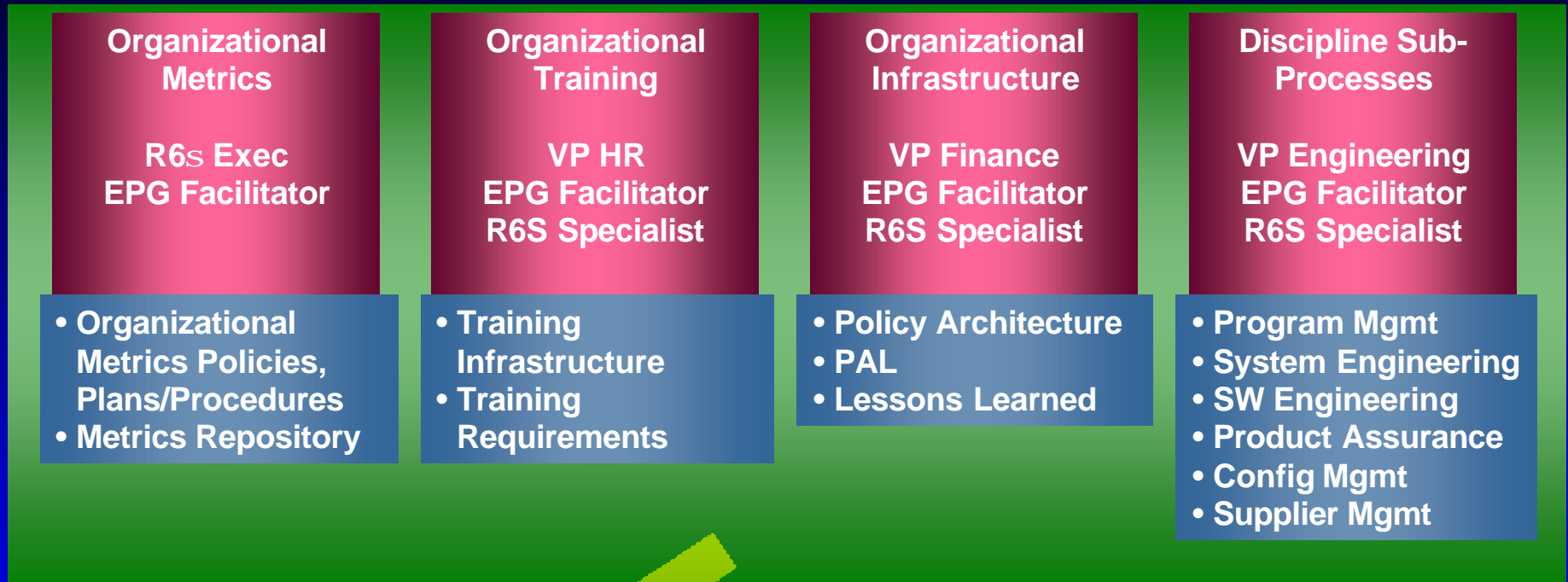
IGS/NS(Tx) CMMI Executive Steering Team

- One steering team member assigned to each CMMI Process Area as a Process Area Owner
- One EPG member to mentor/assist each Process Area Owner
- What is the role of the Process Area Owners?
 - Participate in a workshop with the focus programs to learn about process area goals and desired behaviors and to participate in identification of organizational and program gaps
 - Work with their assigned EPG member to develop action plans based on results of two Class B assessments and EPG gap analysis
 - Track deployment of the action resolutions through deployment in preparation for SCAMPI
 - Walk the talk!

CMMI Deployment Model



Garland CMMI Organizational Process Action Teams



Deployment Team
SW Eng Director
R6 Specialist

- Focus Program Support
- Mentoring
- Formal Training

Verification Team
Systems Eng Director

- Objective Evidence Verification
- SCAMPI Coordination



Lessons Learned

- **Support of organizational leader critical to setting goal – can't be driven only from Software and Systems Engineering**
- **Engage program management early**
- **CMMI goal included in Executive Sponsor performance goals and flowed into goals of direct reports established clear responsibility and accountability**
- **Engaging site leadership as a steering team and as action team sponsors was very effective**
 - **Resource availability**
 - **Awareness of issues/challenges**
 - **Passion!**
- **Including focus program PMs on the steering team established accountability as well as forum for elevating issues**

Biographical Information

Ann Turner currently manages the Raytheon Garland site Engineering Process Group which was established in 2001 to better align the organizational process focus with the CMMI model. Ann has 23 years experience in software development, configuration management and process improvement. Ann has a B.S. in Business with concentration in Management Information Systems and a Certificate in Program Management, both from the University of Texas at Dallas.