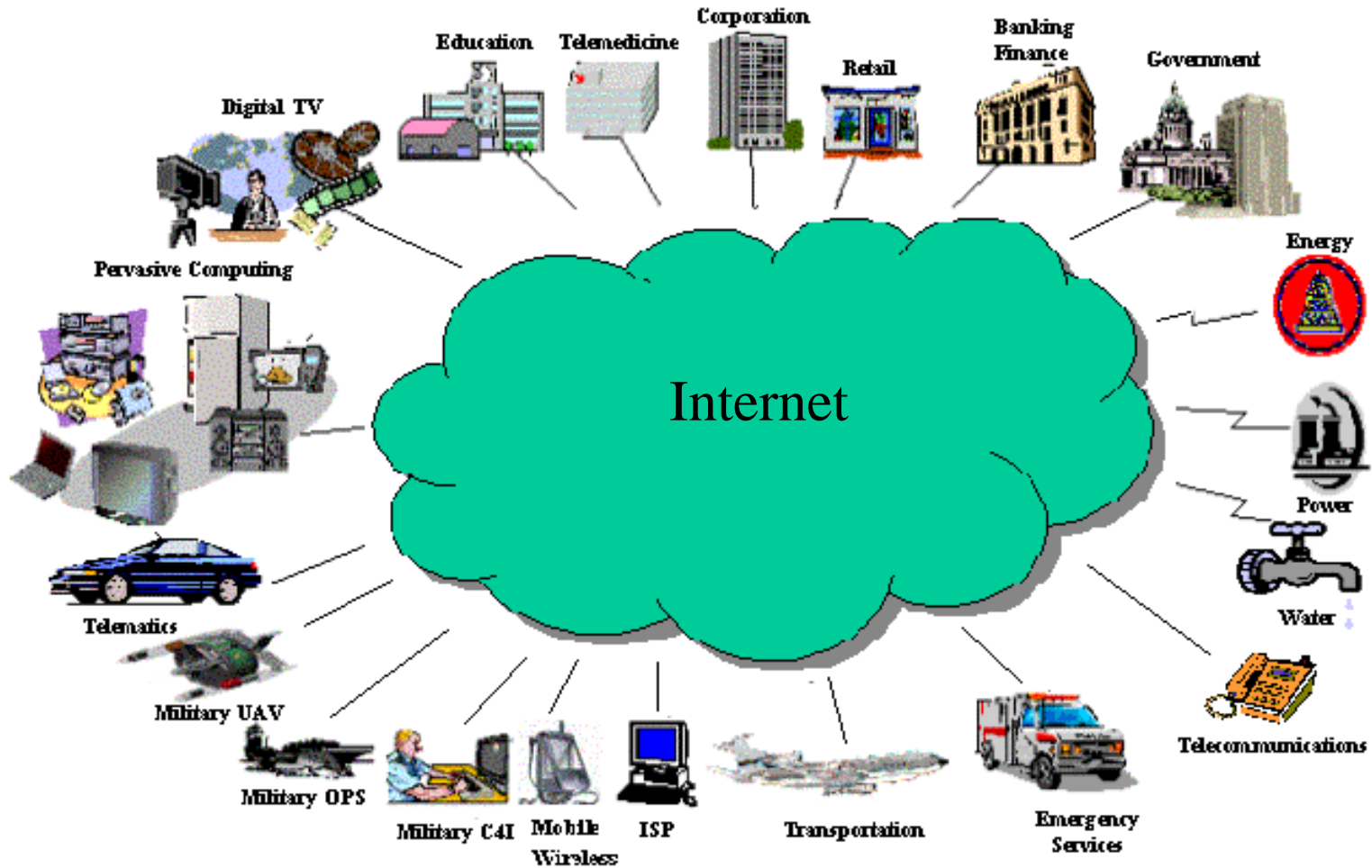# Real time and Embedded Systems Forum

Spotlight

"The Boundaryless Enterprise"

Software with Real-time and QoS features will make the Boundaryless RT Enterprise deterministic, integrated and flexible.
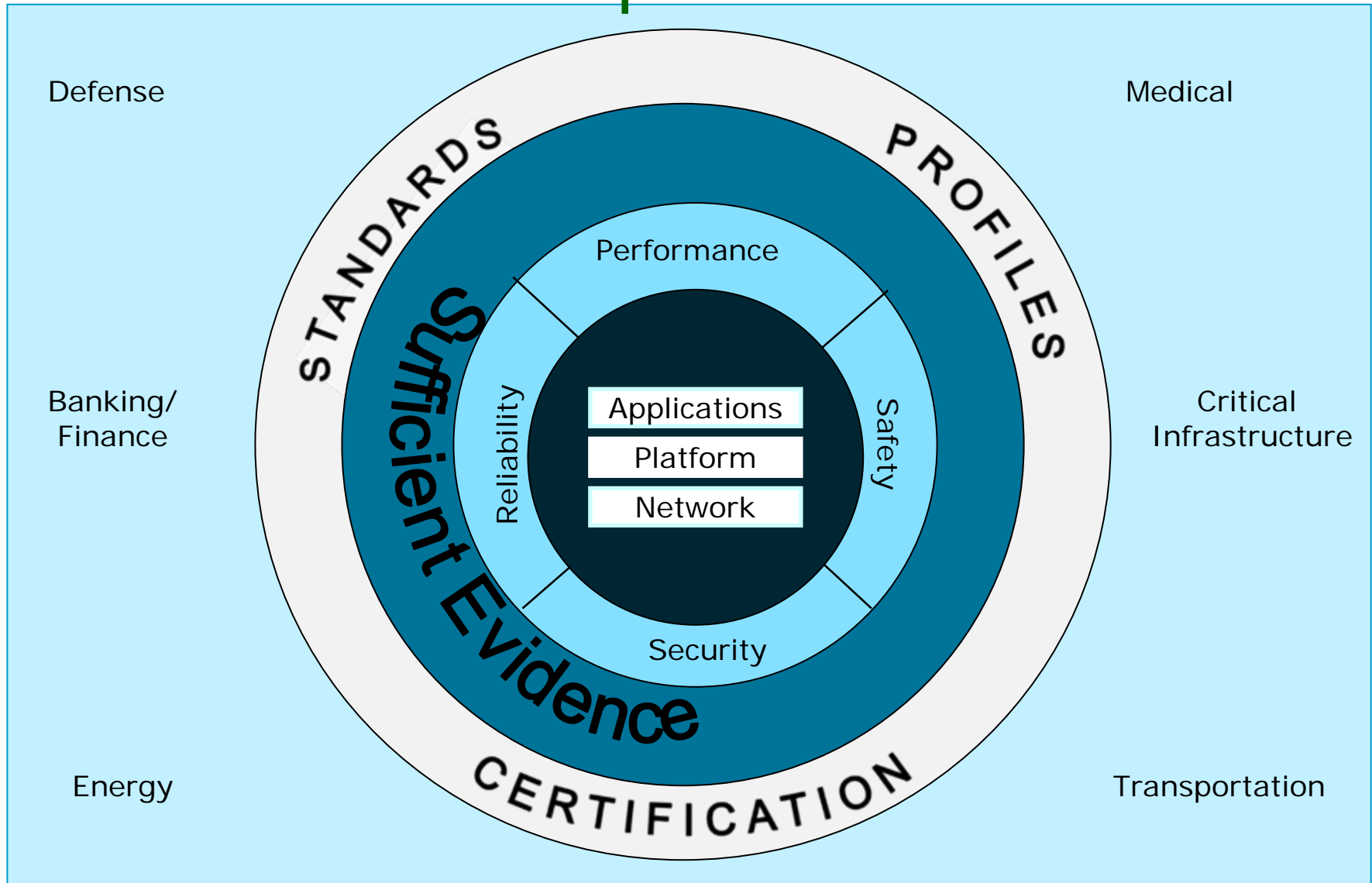
Real-time & Embedded Systems Forum

❑ **<u>RTES Vision</u>**

- ■ Employ widely supported and open real-time standards and enabling technologies to deliver testable and certifiable cost-effective, mission-capable systems.
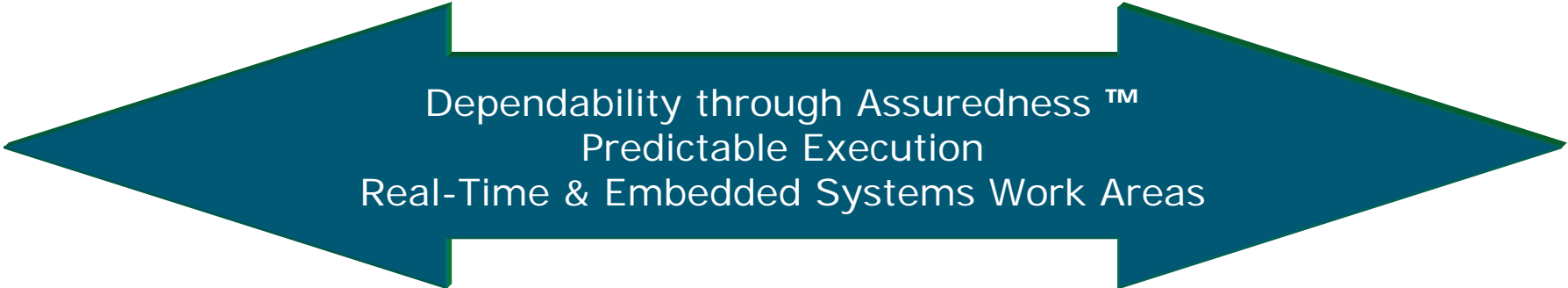
❑ **<u>RTES Mission</u>**

- ■ Improve the time and cost to market adoption of real-time and embedded solutions by providing a forum where we can share knowledge and integrate open initiatives, and certify approved products and processes.

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Real-time & Embedded Systems Forum Perspective

Real-time & Embedded Systems Forum Coverage

Dependability through Assuredness ™
Predictable Execution
Real-Time & Embedded Systems Work Areas

Open Architecture for RTES	IEEE POSIX® RT Standards, Profiles & Certification	RT (Security & Safety) Critical Systems	Safety Critical RT Java/ JSR302	Secure Mobile Architecture

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Real-time & Embedded Systems Forum Structure &Leadership

- ❑ **Forum Chairs**
  - ▪ Chair - Glen Logan, AMERICAN SYSTEMS
  - ▪ Vice Chair – Edwin Lee, Raytheon
- ❑ **Working Groups/Chairs**
  - ▪ **Open Architecture for RTES – Glen Logan/Edwin Lee**
    - ▪ MOSA –Glen Logan
    - ▪ Architecting to the Edge ™ – Edwin Lee
  - ▪ **IEEE POSIX RT Standards, Profiles, & Certification - Joe Gwinn, Raytheon/Glen Logan**
    - ▪ IEEE POSIX 1003.13 – Joe Gwinn
    - ▪ IEEE POSIX 1003.26 – Joe Gwinn
  - ▪ **RT (Security & Safety) - Critical Systems - Michael McEvilley, MITRE/ Rance DeLong, LynuxWorks/ Edwin Lee**
    - ▪ MILS Demos – Ben Calloni, Lockheed Martin/Carolyn Boettcher, Raytheon
    - ▪ Lexicon – Michael McEvilley
    - ▪ Standardization – Carolyn Boettcher
    - ▪ Protection Profiles – Rance DeLong
    - ▪ MILS Integration – Rance DeLong
    - ▪ Compositional Certification – John Rushby, SRI
    - ▪ Cyber-Physical Systems – Rance DeLong
  - ▪ **Safety Critical RT Java/JSR 302 – Doug Locke, LLC/ Robert Allen, Boeing**
    - ▪ Specification
  - ▪ **Secure Mobile Architecture - Steve Venema, Boeing (new A/O of 17 Feb 2009)**
    - ▪ SCADA
    - ▪ Medical Devices
    - ▪ Intelligent Transportation Systems

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Real-time and Embedded Systems Forum
IN PROCESS of BEING UPDATED

Item		Munich	San Diego	London	Toronto	Hong Kong		POC
							2010	
Work In-process								
Toward Standards for the MILS Architecture								Rance DeLong
Requirements		Review	Finalize					Carolyn Boettcher
APIs		Initial	Review	Review	Review	Finalize		Rob Hoffman
Certification Program							Finalize	
Composability business scenario			Finalize					John Rushby
Component level specification				Initial	Review	Review		Rance DeLong
High Assurance Procurement								
Managers Guide – what it is, how to use it			Initial	Review	Review	Finalize		Michael McEvilley Edwin Lee
Procurement Guide – what should be in RFI			Initial	Review	Review	Finalize		Glen Logan
Dependability through Assuredness								
Requirements			Finalize					Edwin Lee John Anton
1st Dependability Guide				Initial	Review	Finalize		
Architecting to the Edge								
OSA Guide – Requirements		Initial	Finalize					Edwin Lee
OSA Pocket Guide				Initial	Review	Finalize		Edwin Lee
Safety Critical Java – JSR 302								
Specification		On-going	On-going	On-going	Finalize			Doug Locke