Project	**IEEE 802.20 Working Group on Mobile Broadband Wireless Access** <**http://grouper.ieee.org/groups/802/20/**>
Title	**Iterative Design for Rapid Standards Development**
Date Submitted	**2003-05-05**
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Re:	MBWA Call for Contributions
Abstract	This contribution defines a work process that will allow 802.20 to deliver a high quality standard within the timeframe required by the wireless industry. The process relies on a modified waterfall approach to development with multiple threads operating in parallel.
Purpose	Provided as input to the development of a working methodology and workplan.
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Patent Policy	The contributor is familiar with IEEE patent policy, as outlined in Section 6.3 of the IEEE-SA Standards Board Operations Manual <http://standards.ieee.org/guides/opman/sect6.html#6.3> and in *Understanding Patent Issues During IEEE Standards Development* <http://standards.ieee.org/board/pat/guide.html>.

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Iterative Design for Rapid Standards Development
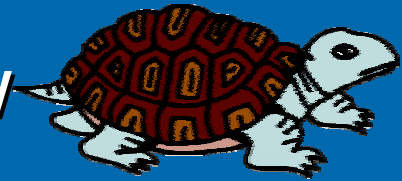
Mark Klerer

May 5, 2003

IEEE 802.20 Project Development Timeline

- ECSG Approval of PAR/5C — September 2002
- Submission of PAR/5C to LMSC Executive Committee — October 7, 2002
- Conditional Submission of PAR/5C to NesCom — October 31, 2002
- First MBWA Technical Meeting (WG #0) — Nov 10-14, 2002
- Approval of PAR/5C by LMSC Executive Committee — Nov 15, 2002
- Approval of PAR by IEEE-SA Board — Dec 12, 2002
- First Meeting of MBWA WG (WG #0) — Jan 13-17, 2003
- Initial Membership Meeting — March 10-14, 2003
- WG Letter Ballot — Nov 21 – Dec 30, 2003
- LMSC Sponsor Ballot — May 26 – July 7 2004
- Sponsor Confirmation Ballot — Aug 11 – 26, 2004
- (Conditional) Submission to RevCom — October 31, 2004
- IEEE-SA Approval — December 10, 2004
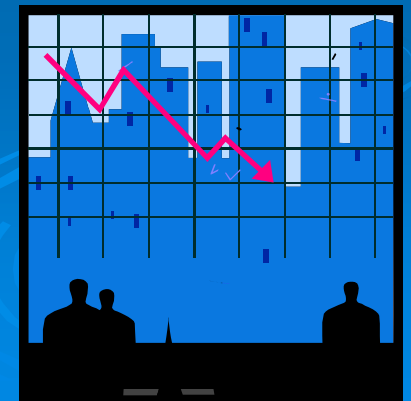
The Problem with Standards Development

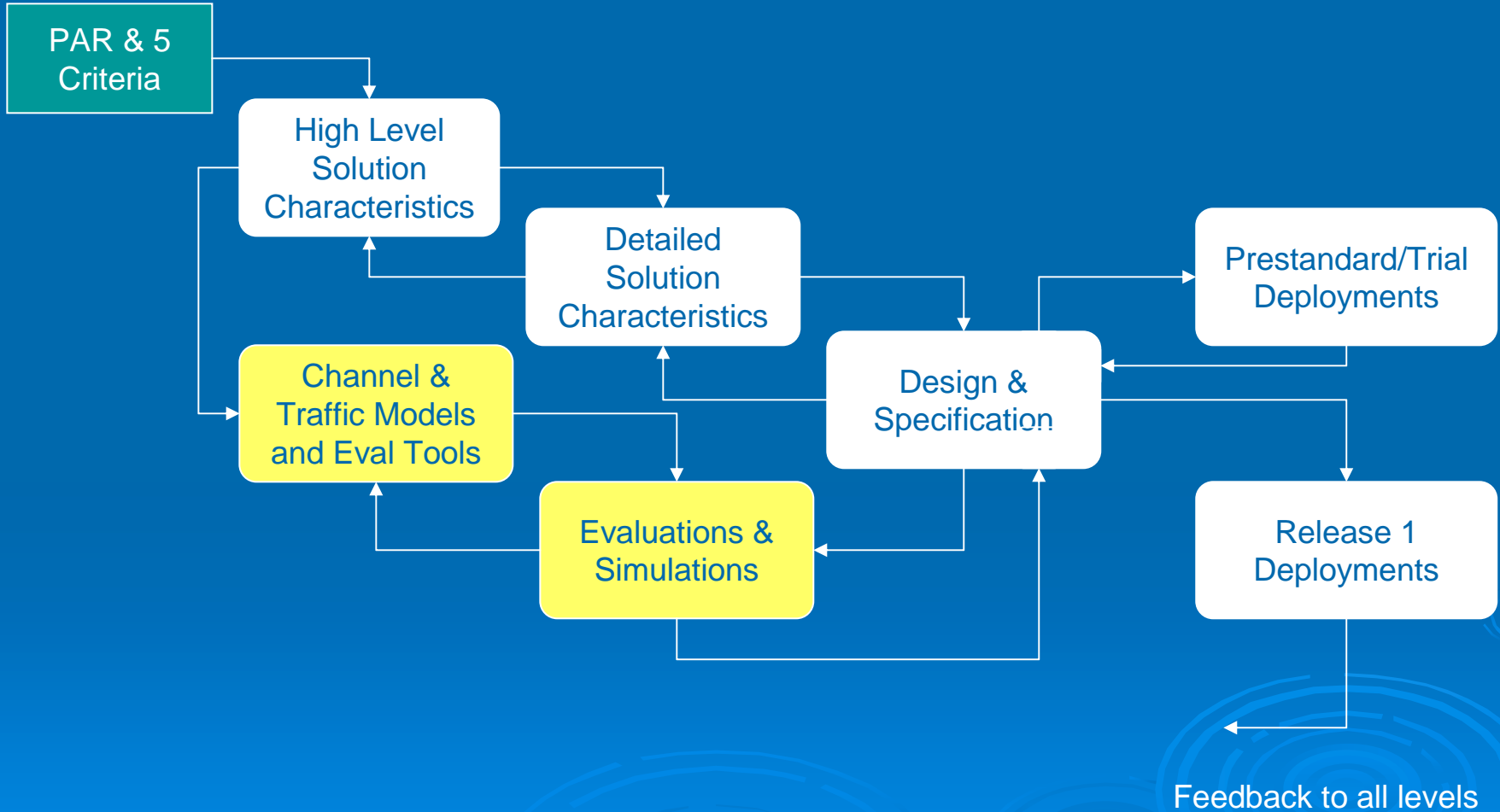➢ **Standards development is slow**

- Serial development process

  - Requirements

  - Stage 1 – n specifications

  - First deployment

Market Projection

Iterative Design For Rapid Standards Development

Recommendations

➢ Maintain initial narrow focus of requirements and solution prior to expanding scope to interworking issues

➢ Accelerate process by non-serial development of requirements and solution

➢ Allow feedback from solution feasibility into requirements

➢ Improve true quality of standard by allowing rapid feedback of deployment experience

➢ PAR schedule maintainability to be assessed in July