



inEMI[®]

International Electronics Manufacturing Initiative

Lead-Free Review

FF06 Free Forum

APEX 2009
April 2, 2009

Advancing manufacturing technology

Agenda

FF06 iNEMI Optimizing Lead-Free Processes Free Forum

- 8:30 p.m. - 8:35 p.m. Introduction
Chuck Richardson, iNEMI
- 8:35 - 8:55 Pb-free Alloy Alternatives Project
Greg Henshall, HP
- 8:55 - 9:15 Pb-Free Wave Soldering Project
Denis Barbini, Vitronics Soltec, Chair
- 9:15 - 9:35 Lead-Free Rework Optimization Project
Jasbir Bath, iNEMI
- 9:35 – 9:50 BFR-Free High Reliability Project
Stephen Tisdale, Intel
- 9:50- 10:00 Closing Remarks and Discussion
Chuck Richardson, iNEMI





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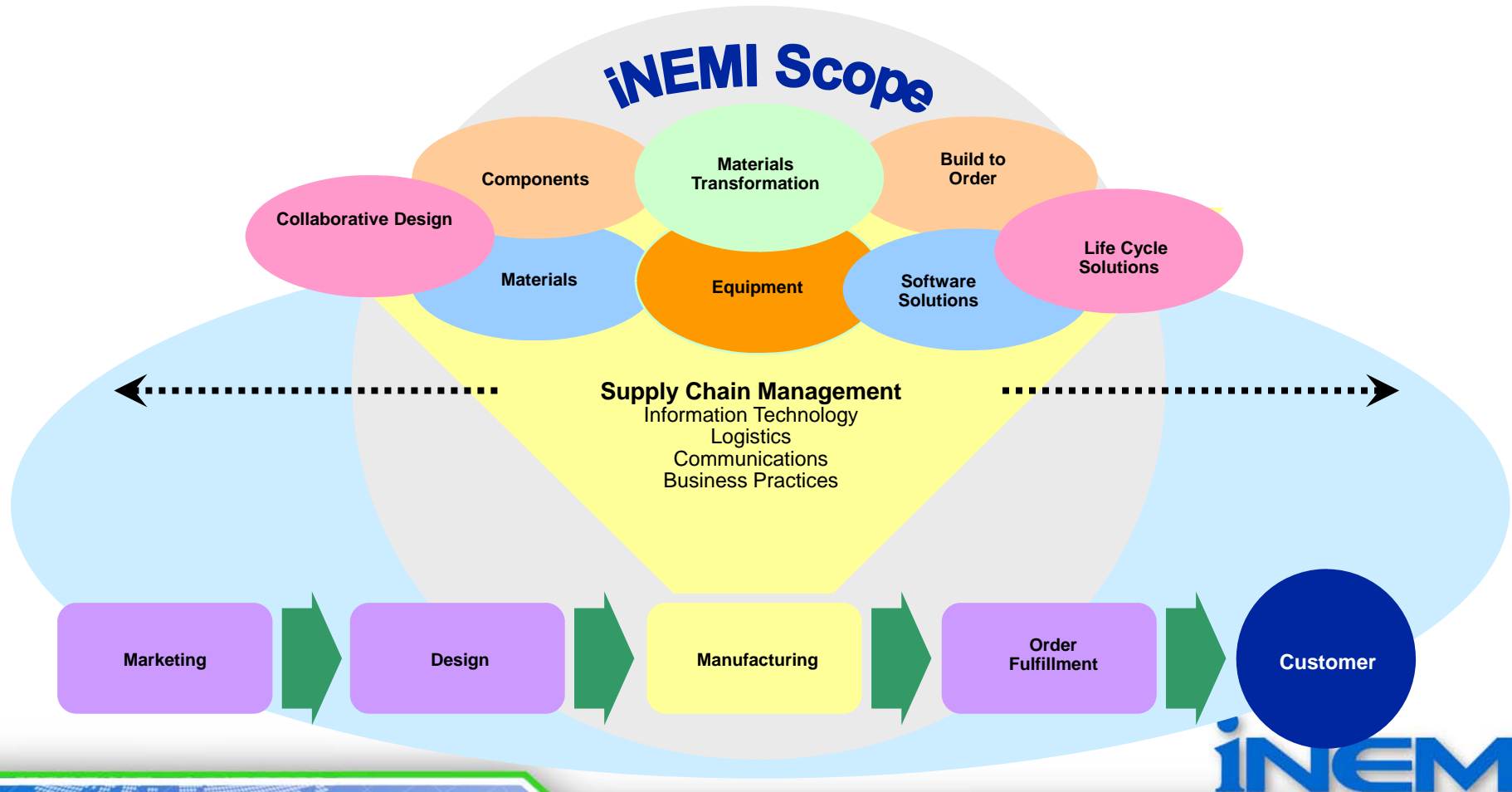
iNEMI Overview

*Chuck Richardson
APEX 2009
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Mission

Identify and Close TECHNOLOGY GAPS which includes the development and integration of the electronics industry supply infrastructure.



What Does iNEMI Do?

***Leverage the combined Power of Member Companies to
Provide Industry Leadership***

- **iNEMI Roadmaps the Global Needs of the Electronics Industry**
 - Evolution of existing technologies
 - Predictions on emerging/innovative technologies
- **iNEMI Identifies Gaps (both business & technical) in the electronics Infrastructure**
- **iNEMI Stimulates R&D Projects to fill these Gaps**
- **iNEMI Establishes Regional Implementation Projects to Eliminate these Gaps**
- **iNEMI Stimulates World-wide Standards to speed the Introduction of New Technology & Business Practices**
- **iNEMI works with other organizations to insure that government policy recommendations are aligned with iNEMI mission.**



Value Proposition

“Advancing Manufacturing Technology”

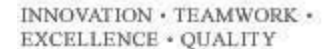
- **iNEMI offers the opportunity to collaborate with the entire supply chain in an efficient manner**
 - To understand and accelerate strategic directions
 - To define future needs and opportunities
 - To jointly create industry standard technology solutions.
- **Today’s increasingly distributed supply chain makes this more important than ever.**
- **iNEMI is a member driven organization that adapts to industry changes quickly and provides timely leadership.**
- **iNEMI provides important deliverables:**
 - Technology roadmaps
 - Research priorities
 - Forums on key industry issues
 - Technology Deployment projects.



OEM/EMS Members



Supplier Members



Association/Consortium, Government, Consultant & University Members



ASSOCIATION CONNECTING
ELECTRONICS INDUSTRIES®



ITRI
Industrial Technology
Research Institute

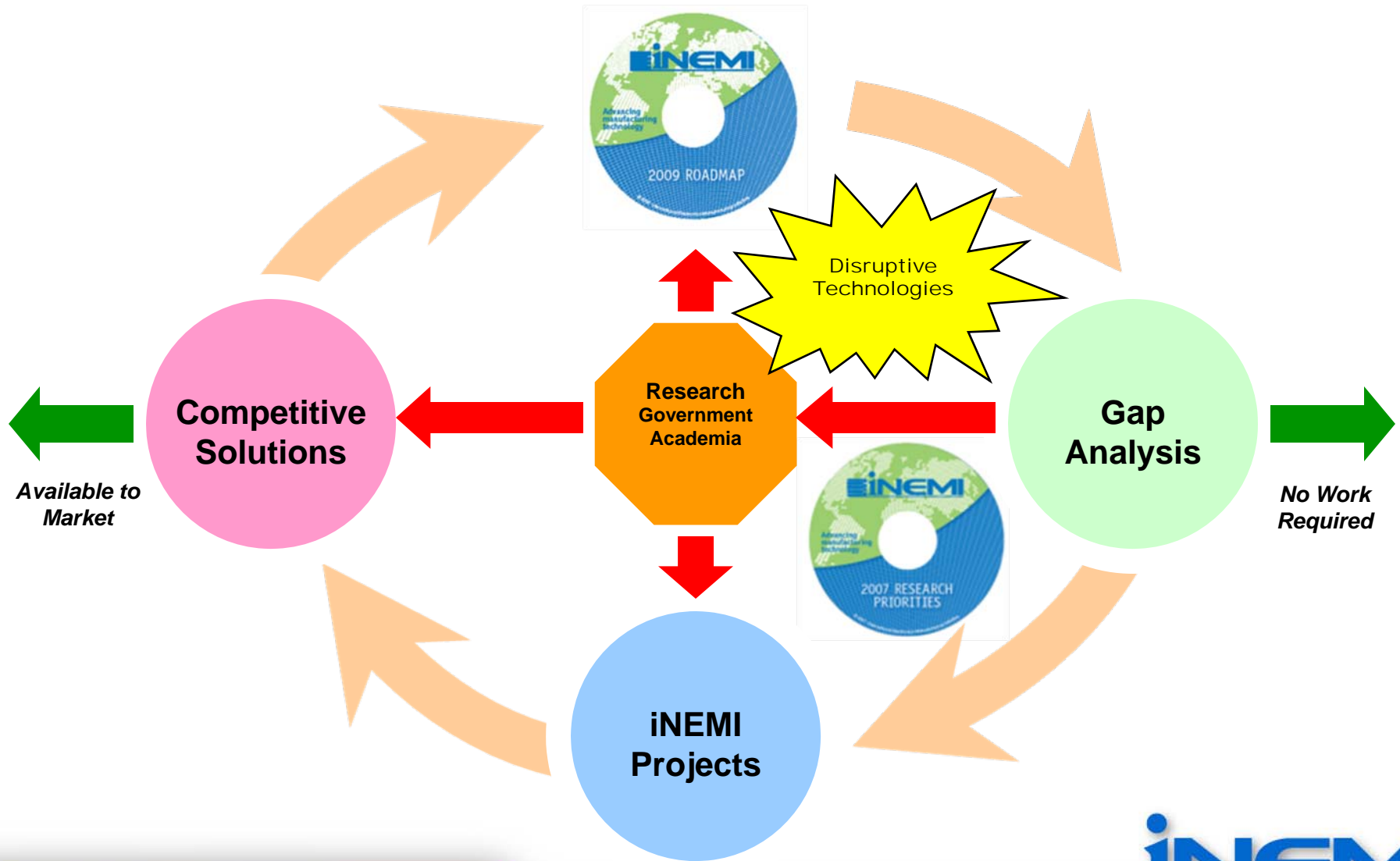


NIST

National Institute of Standards and Technology



iNEMI Methodology



NEMI Projects Close Gaps

- **Develop/evaluate processes and/or protocols**
- **Evaluate alternative technologies**
- **Identify equipment needs**
- **Identify/evaluate communication schemes**
- **Determine component requirements**
- **Develop standards proposals**

Key Elements in Value of iNEMI Projects

- **The companies represented**
 - OEMs who are market leaders in innovative products
 - EMS providers who are global leaders in manufacturing
 - Leading suppliers for manufacturing equipment, materials, components, and software.
- **The specific participants within those companies**
 - Board of Directors
 - Technical Committee
 - Council Members

How Projects are Defined

- **Hold project formation meeting**
- **Members develop Statement of Requirements**
 - User/business case driven
 - What is needed
 - Desired outcome of project
- **Identify leaders**
- **Members develop Statement of Work**
 - Project plan with identified tasks, check points and end dates
 - Companies expected to participate
 - Results expected and how they will be shared outside project
- **Members sign Project Participation Statement**
 - Formally commit resources as agreed
- **Carry out project, report quarterly**

www.inemi.org

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