



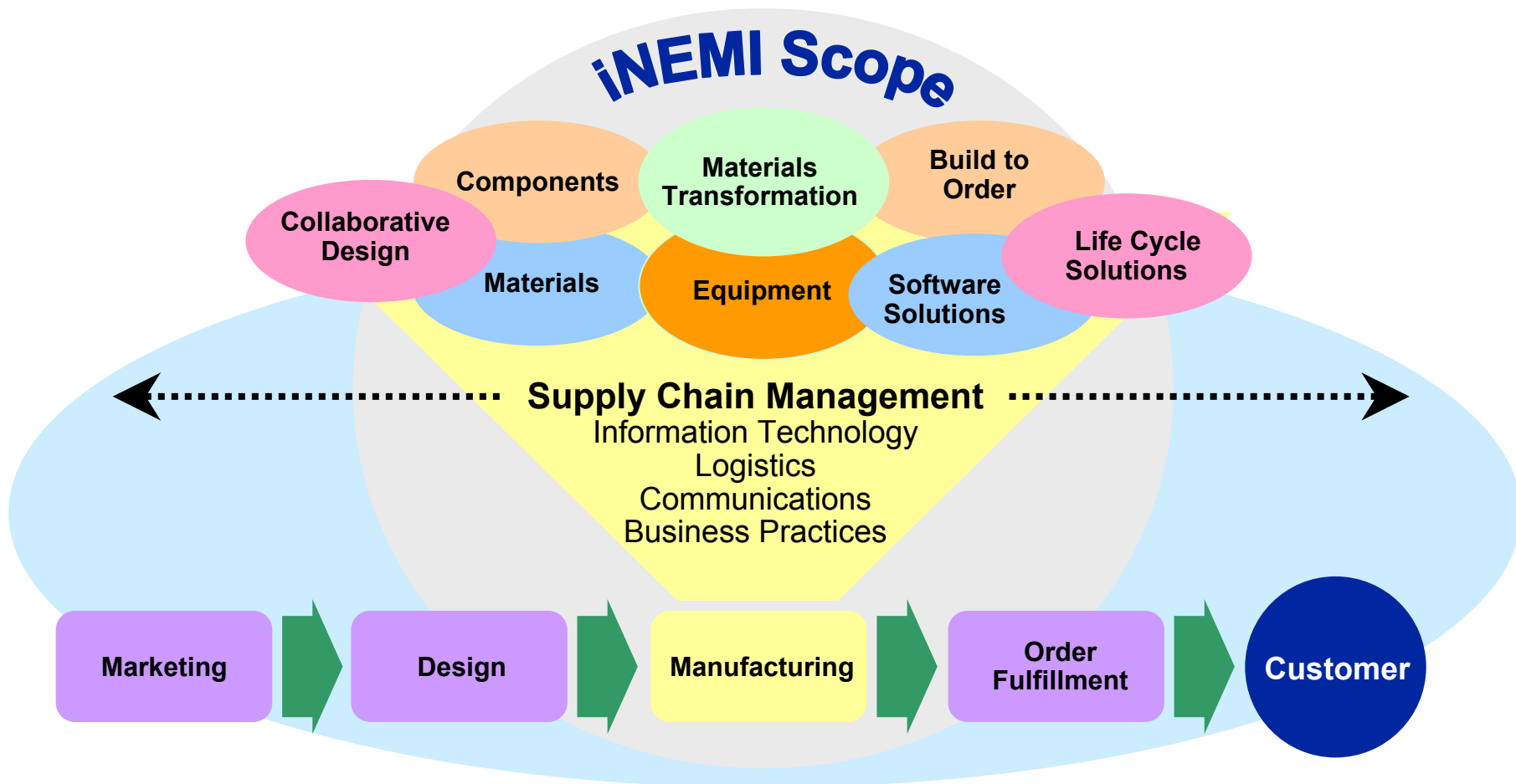
International Electronics Manufacturing Initiative

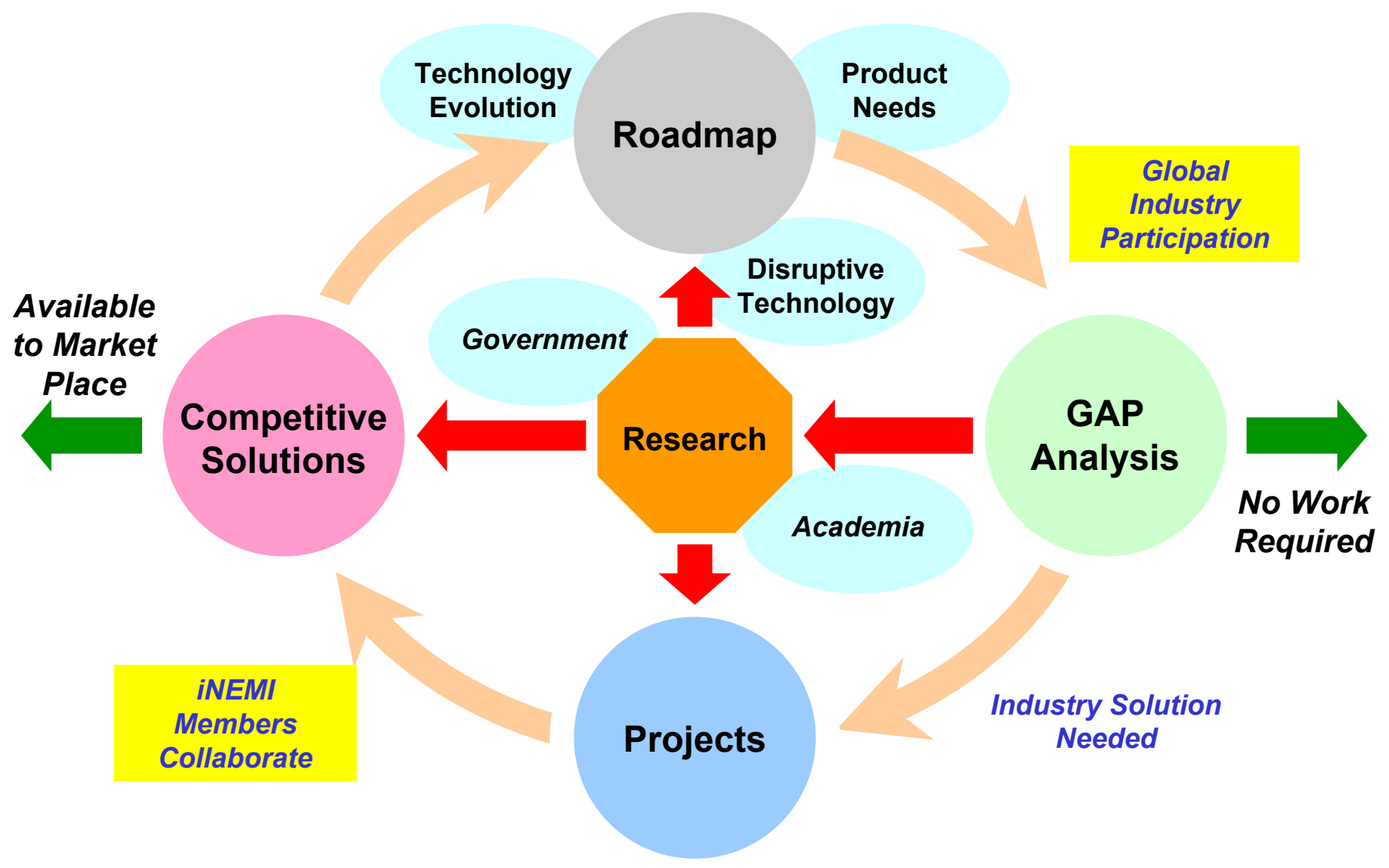
RFID Forum

*Exploring Role for Industry
Collaboration to Close Gaps*

Hosted by Sun Microsystems

*Assure Leadership of the Global Electronics Manufacturing Supply Chain
for the benefit of members and the industry*





“Connect with and Strengthen Your Supply Chain”

- **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 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
 - Deployment projects.



Alleviating Pain · Restoring Health · Extending Life



SANMINA-SCI

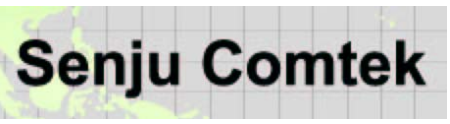


The Enterprise Mobility Company™

INEMI Industry Leaders belong – Suppliers



ELECTRONIC MATERIALS



Consultants, Government, Organizations & Universities



- **Board of Directors held discussion on RFID**
 - **Importance to Electronics Industry**
 - **Barriers to wide adoption**
 - **Could be an area of focus for iNEMI**
- **Decided to organize a one day forum to further develop concept:**
 - **Can iNEMI help by organizing collaborative projects to help address gaps?**
 - **Is this an area where members are willing to cooperate?**

- **Forum planning team – Thanks!**
 - **Dan Blount, Sun Microsystems**
 - **Tim Collins, Motorola**
 - **Dave Martin, Tyco Electronics**
 - **Rick Tyo, Intel**

- **Forum Fee = \$150.00**
 - **Fee waived for speakers**
 - **Fee waived for iNEMI members**

- **Understand current “state of the industry” for RFID**
- **Identify key barriers that are limiting adoption**
- • **Understand potential of RFID to be a major disruptive force on the electronics industry**
- • **Identify collaborative efforts that can close gaps and accelerate deployment**

- 8:00 – 8:30** **Coffee and networking**
- 8:30 – 8:45** **Welcome and expectations**
- 8:45 – 9:55** **State of the Industry for RFID**
 Bill Swanton, AMR Research
 Gary Parent, EDS
- 9:55 – 10:20** **Break**
- 10:20 – 12:00** **Experiences of Early Adopters**
 Richard Tyo, Intel
 Tim Collins, Motorola
 Vivek Khandelwal, Sun Microsystems
 Jeff Richards, Verisign
 Tom Grant, CEO, ThingMagic
- 12:00 – 1:00** **Working Lunch: Panel Discussion on Barriers**
- 1:00 – 3:00** **Group discussion**
 Identify key barriers/gaps
 Identify strategies for closing gaps
 Test for interest to collaborate
- 3:00 – 4:00** **Summarize and develop action plan**

- **Faith based ROI**
- **Data synchronization (prerequisite)**
- **Maturity of Standards (perception or reality?)**
- **Cost of hardware & integration**
- **Waiting for Gen 2 role-out**
- **Frequency regulations vs. regions**
- **Read rates**
- **Tag quality**
- **Tag availability (Gen 2)**
- **Privacy & Health**
- **Ease of deployment**
- **IP challenges**
- **Trust in data sharing (across supply chain)**

- **Readers vs. middleware vs. applications (architecture level)**
- **In line capability (line speed vs. RFID capability)**
- **Tag cost**
- **IT investment**
- **Education of stakeholders**
- **Integration into existing systems**
- **Scalability/maintainability**
- **No COTS solutions**
- **Software cost**
- **Functionality today does not support hosted solutions**
- **Restrictions on data sharing across the supply chain**
- **Too many solutions chasing too few opportunities**
- **Lack of interoperability standards/compliance testing**
- **Data exchange standards**

- **Security and eco-terrorism**
- **RFID can be viewed as disruptive technology**
- **Secure communication/authentication**
- **Steering vs. management by exception**
- **Requires inventory management system in place in order to gain full benefit of RFID**
- **High volume mfg. of Tags**
- **Modification of business processes to take advantage of RFID**

- **Standards/regulations * (9 votes as most important)**
 - Focus on structured standards like ISO
 - Information infrastructure
 - Competing standards
- **Taxonomy of Applications * (3 votes as most important)**
 - Survey members
 - Pick top hitters
 - Education around success stories (results of pilots)
- **Business Case**
 - Cost
 - ROI Challenges
- **Technology * (8 votes as most important)**
 - Roadmap trends
 - Volume mfg.
 - Deployment complexity
- **Security**

- **Decided to form two teams to begin to address highest priority issues:**
 - **Technology (roadmapping, volume mfg.)**
 - **Standards/Regulations**
- **Agreed to survey members for interest.**
- **Interest group for Technology**
 - **Tim Collins, Motorola**
 - **Bill Garon, Jabil**
 - **Dan Blount, Sun**
 - **Mulugeta Abtew, Sanmina-SCI**
 - **Richard Stirbisky, Celestica**
 - **Bill Swanton, AMR Research**

- **Interest group for Standards/Regulations**
 - Richard Tyo, Intel (possible chair)
 - Jim Clark, Sun
 - Jerome Breche, Sanmina-SCI
 - J.P. Kamel, Bell Canada
 - Bill Henneberry, Sun
 - Gary Parent, EDS
 - Jeff Richards, VeriSign
- **Need to identify Chair and Co-chair for each Group.**
- **Agreed to start weekly telecons to begin to scope work.**
- **Agreed to share case studies of RFID (I.e. success stories).**

- **Thanks to Sun Microsystems for Hosting this forum at their Newark California campus.**



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