

# The Next Generation of EDI Standards "Object Oriented EDI"

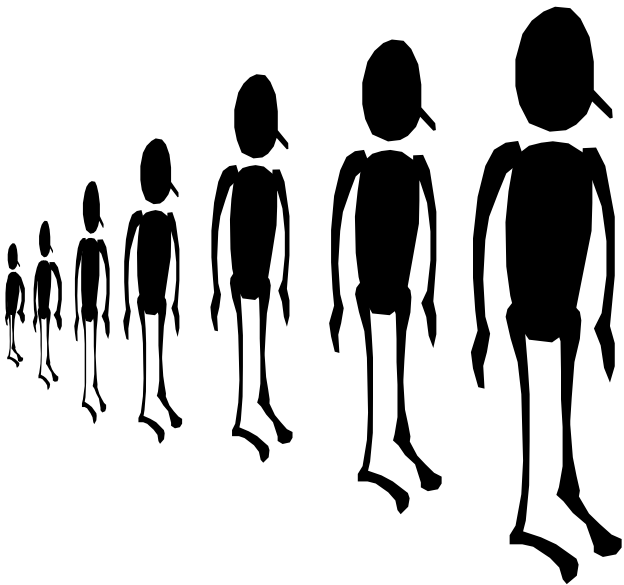
Timothy A. Rose  
IBM Global Services



---

**“It is not the strongest of the species that survives,  
nor the most intelligent; it is the one that is most  
adaptable to change”**

**✦ Charles Darwin**



# Shaping the Future ... Today

---

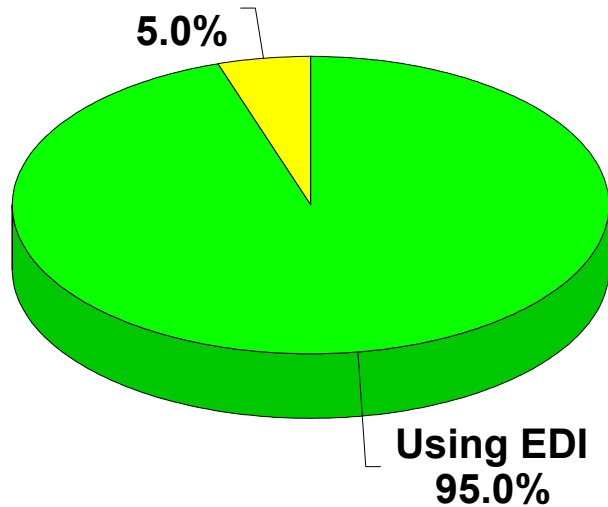


- ✦ Today's environment
- ✦ The "next generation"
- ✦ Status

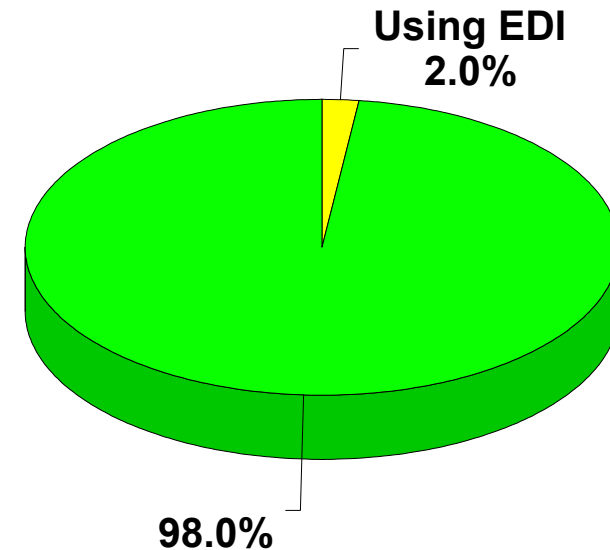


# Is There A Problem?

FORTUNE 1000



OTHER BUSINESSES



✦ *Too Expensive !*

✦ *Too Hard !*

✦ *Too Difficult to change standards !*

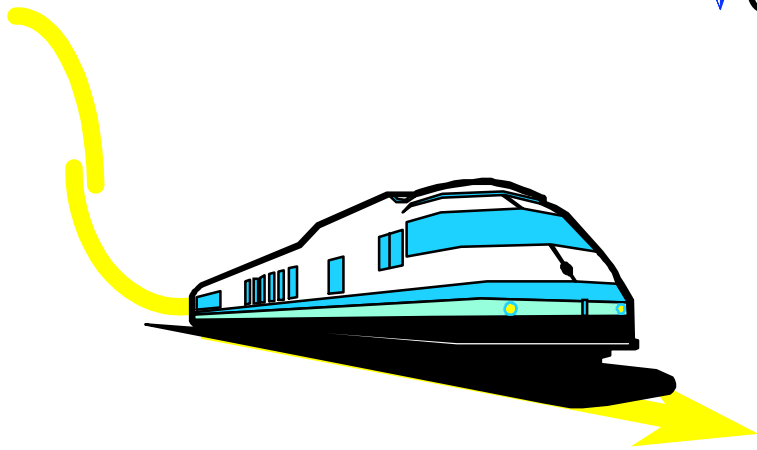


# ASC X12'S SITG

## Strategic Implementation Task Group

---

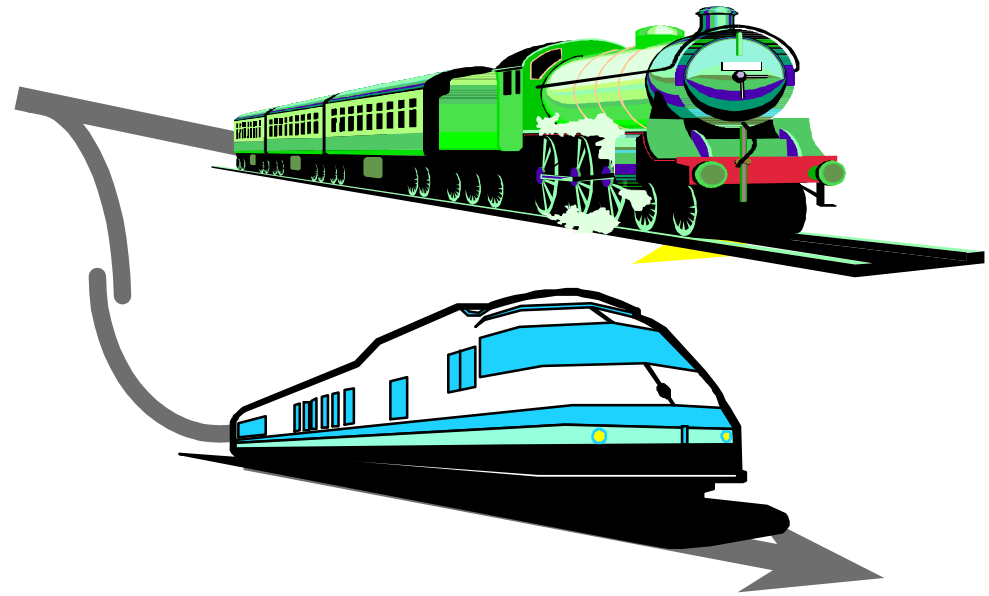
- ✦ Formed to move to next generation of EDI standards
- ✦ US voice in international arena
- ✦ Goals:
  - + Cost effective to integrate (ISV)
    - ★ Off-the-shelf for SMB
    - ★ Tools for Enterprise Wide
  - + Cost effective use
    - ★ Automated EDI Interfaces
      - ★ Minimum human intervention
    - ★ Non-obtrusive to business practices
- ✦ Business Model and Object Tech.



# Dual Track

---

- ✦ Any way of doing EDI must permit current & new EDI to exist in parallel
- ✦ Must define a migration path to assist user community in transition



# Shaping the Future ... Today

---



- ✓ ✦ Today's environment
- ✦ The "next generation"
- ✦ Status

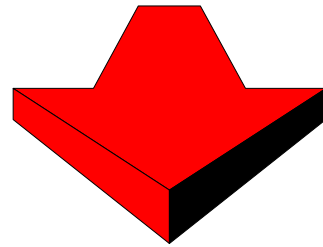


# The Direction

---

## Implement Open-EDI

- ✦ Modeled approach
- ✦ Object oriented technology



**The “shrink wrap” solution**



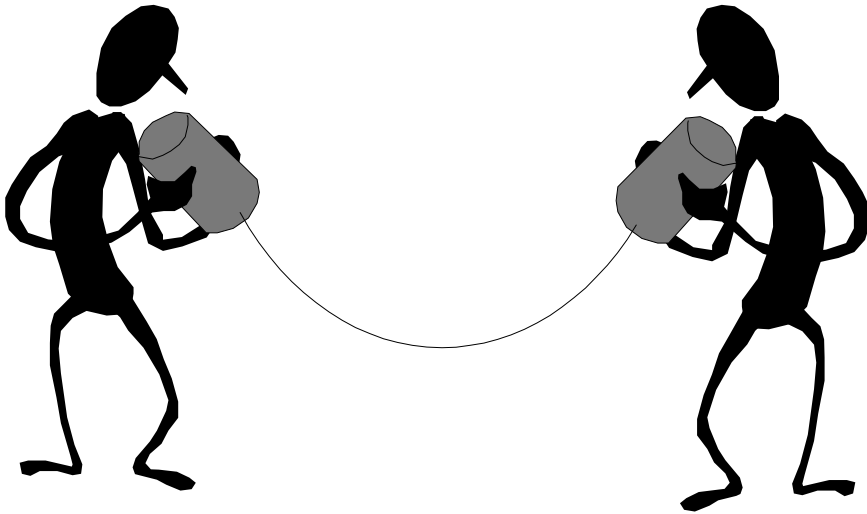


# What is Open-EDI?

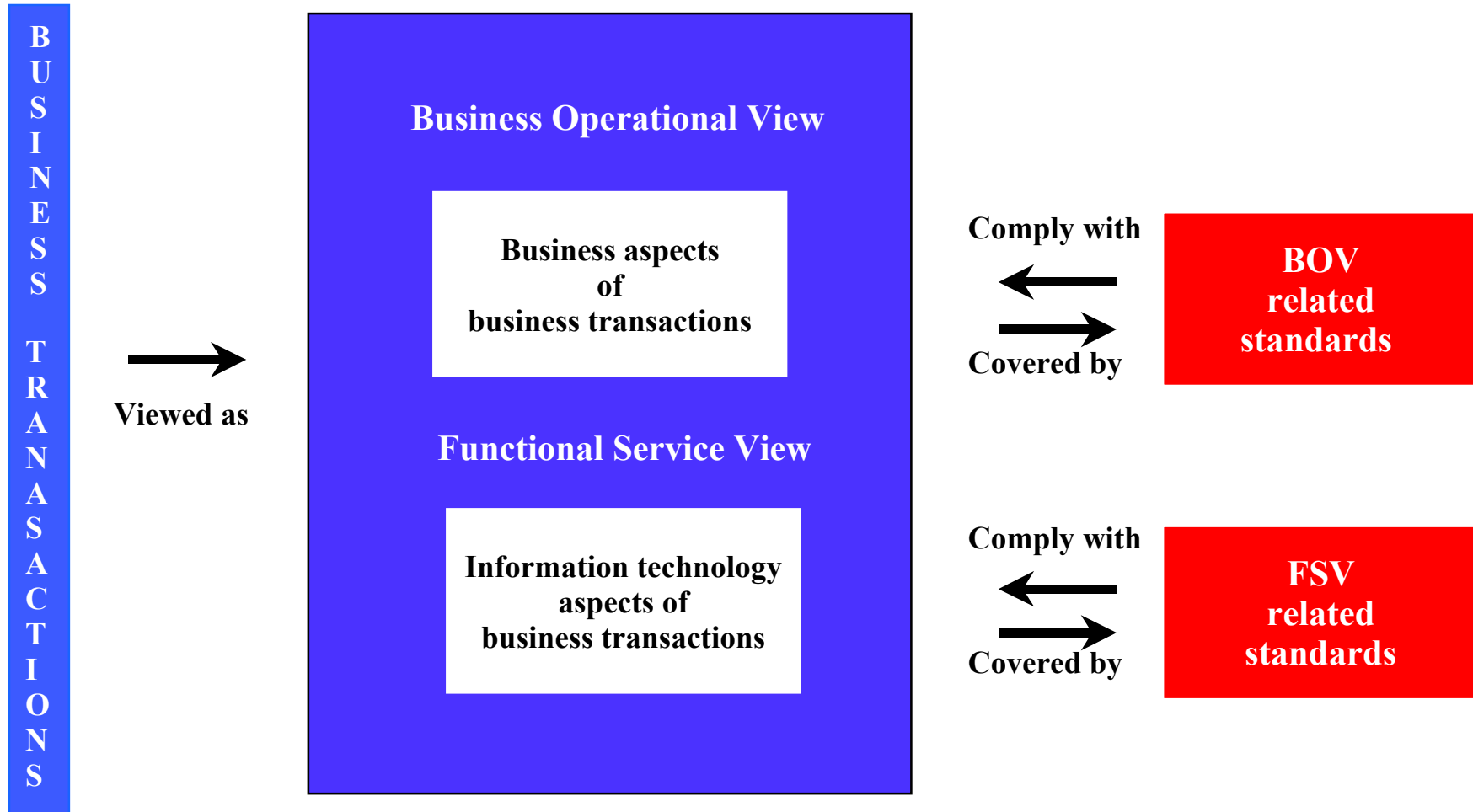
---

## A vision of future EDI characterized by:

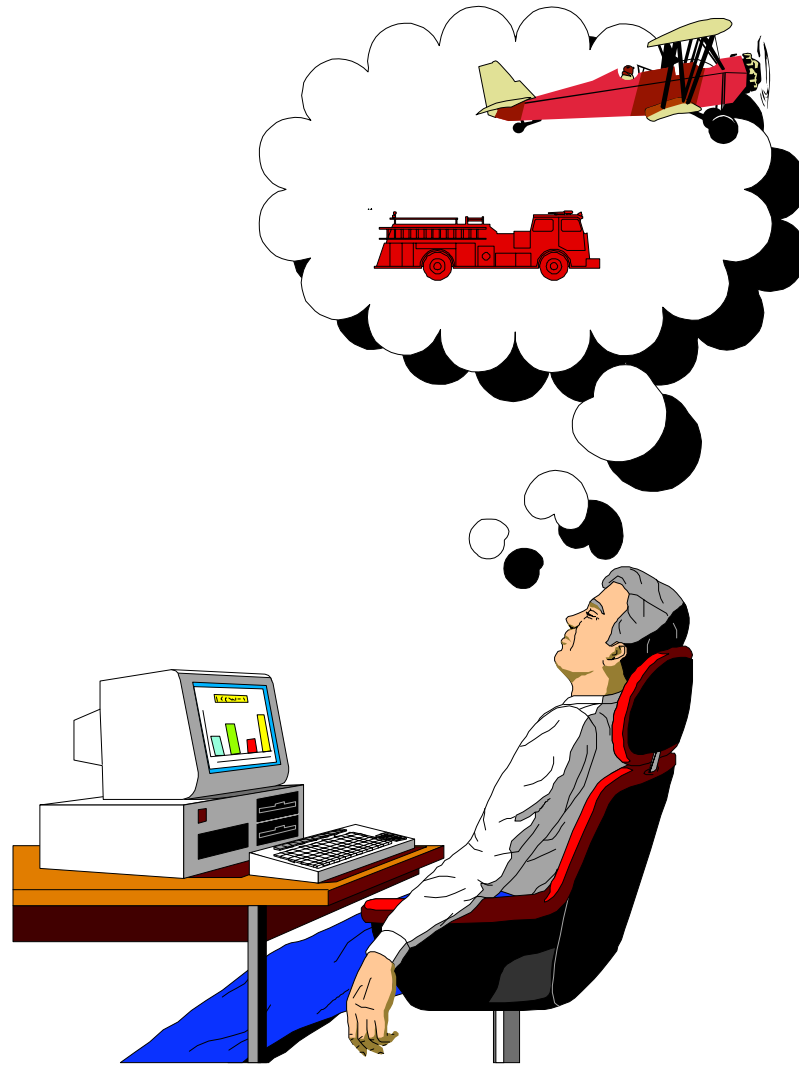
- ✦ Structured/predefined information
- ✦ No prior agreements
- ✦ No human intervention
- ✦ Independence from underlying IT systems
- ✦ Supports cross sectoral exchanges



# Open-EDI Reference Model



# Business Information Modeling



# What Is Modeling?

---

- ✦ **Clearly defines:**

- + **Business process**
- + **Activities**
- + **Data**

- ✦ **Decomposes business processes to the generic components**

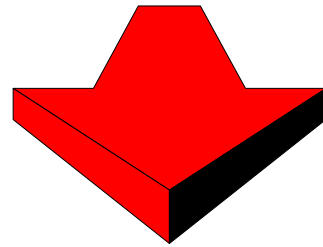
- + **Means of representing something**
- + **Includes essential capabilities, properties, or aspects**
- + **Excludes extraneous details**



# What Are The Deliverables?

---

- ✦ Modeling, through use case models, activity diagrams, class diagrams, sequence diagrams, and collaboration diagrams:
  - + Documents what is done & how it is done clearly
  - + Describes precedence & cause relationships between situations
  - + Provides description of information structures

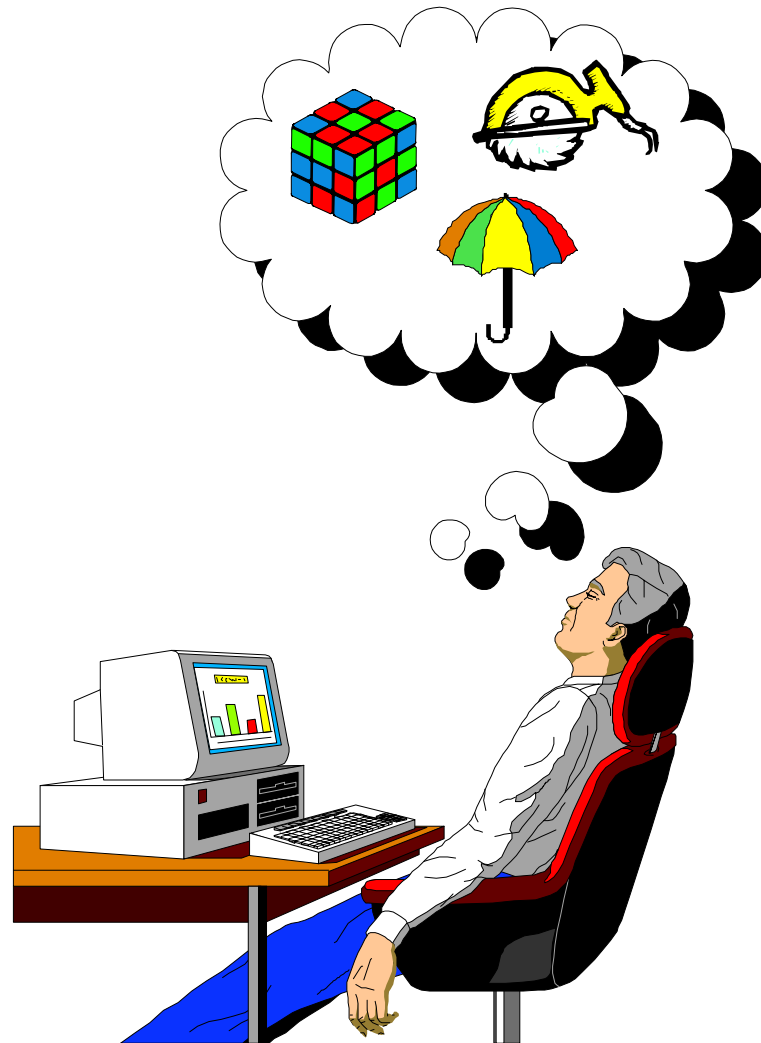


The first OO-edi Standards Component



# Objects and Object Classes

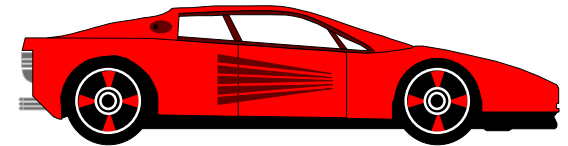
---



# What is an Object?

---

**Object:** A reusable, self-contained component of a business information model. (A person, place or thing.)



# An Object Knows:

---

- ✦ Who it is
- ✦ What it does
- ✦ How it relates to other objects

It knows everything we store in implementation guides

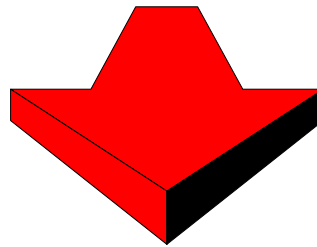




# What Are The Deliverables?

---

- ✦ Class Libraries tied to the modeled business requirements
- ✦ Reusable components
- ✦ Support easy integration into business solutions

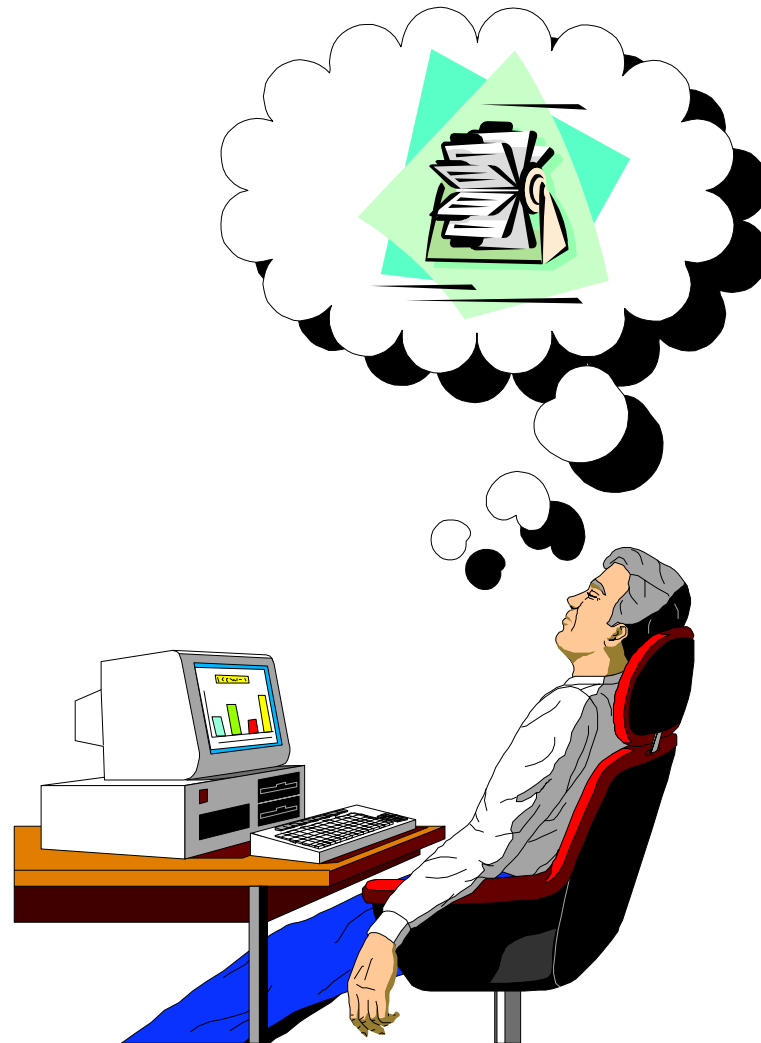


The second OO-edi Standards Component



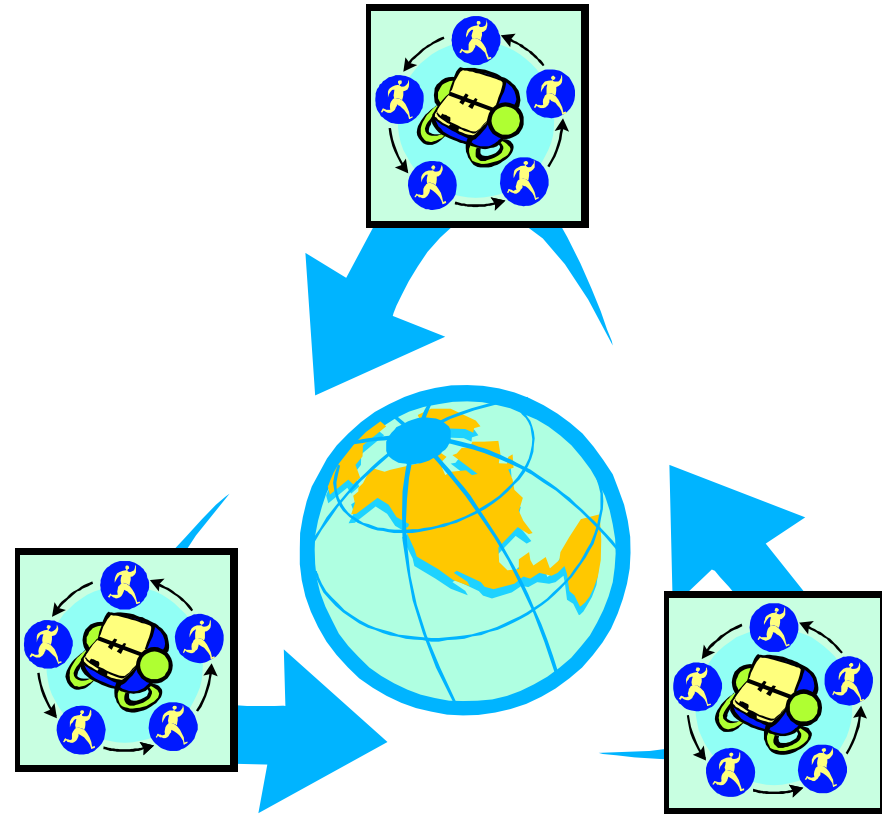
# Standards Repositories

---



# OO-edi Standards Repositories

- ✦ Global Repository
  - + Models, Class Libraries...
  - + Replicative & Distributed
- ✦ Vendor Provided
- ✦ Sectoral
  - + Industry
  - + Geographic
  - + EC Communities



# Shaping the Future ... Today

---



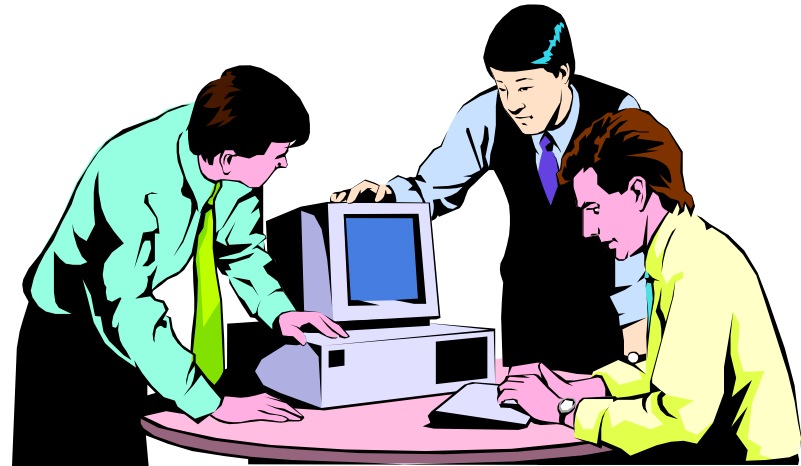
- ✦ Today's environment
- ✦ The "next generation"
- ✦ Status



# Established the Organization

---

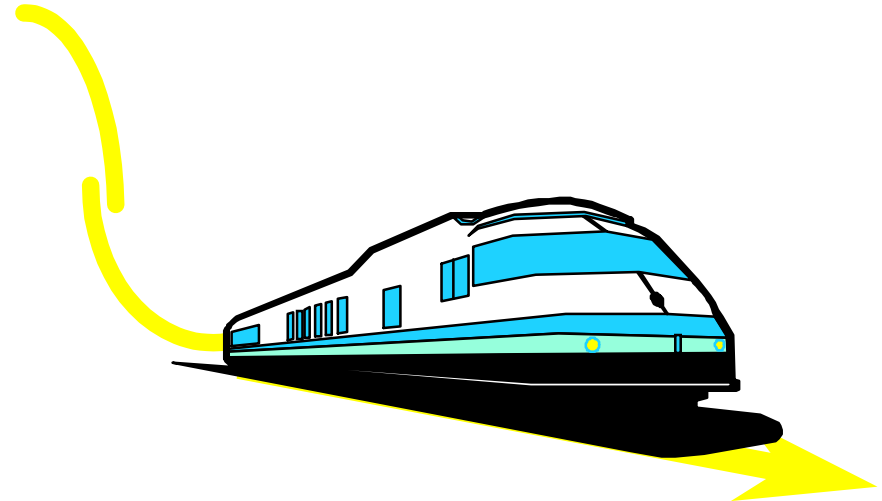
- ✦ Established SITG within ANSI ASC X12
- ✦ Aligned with UN/CEFACT
- ✦ Liasoned with similar organizations
  - + CORBA, OMG, IETF,...
- ✦ Working with Technology Leaders
  - + IBM, Microsoft, Oracle,Intuit,....



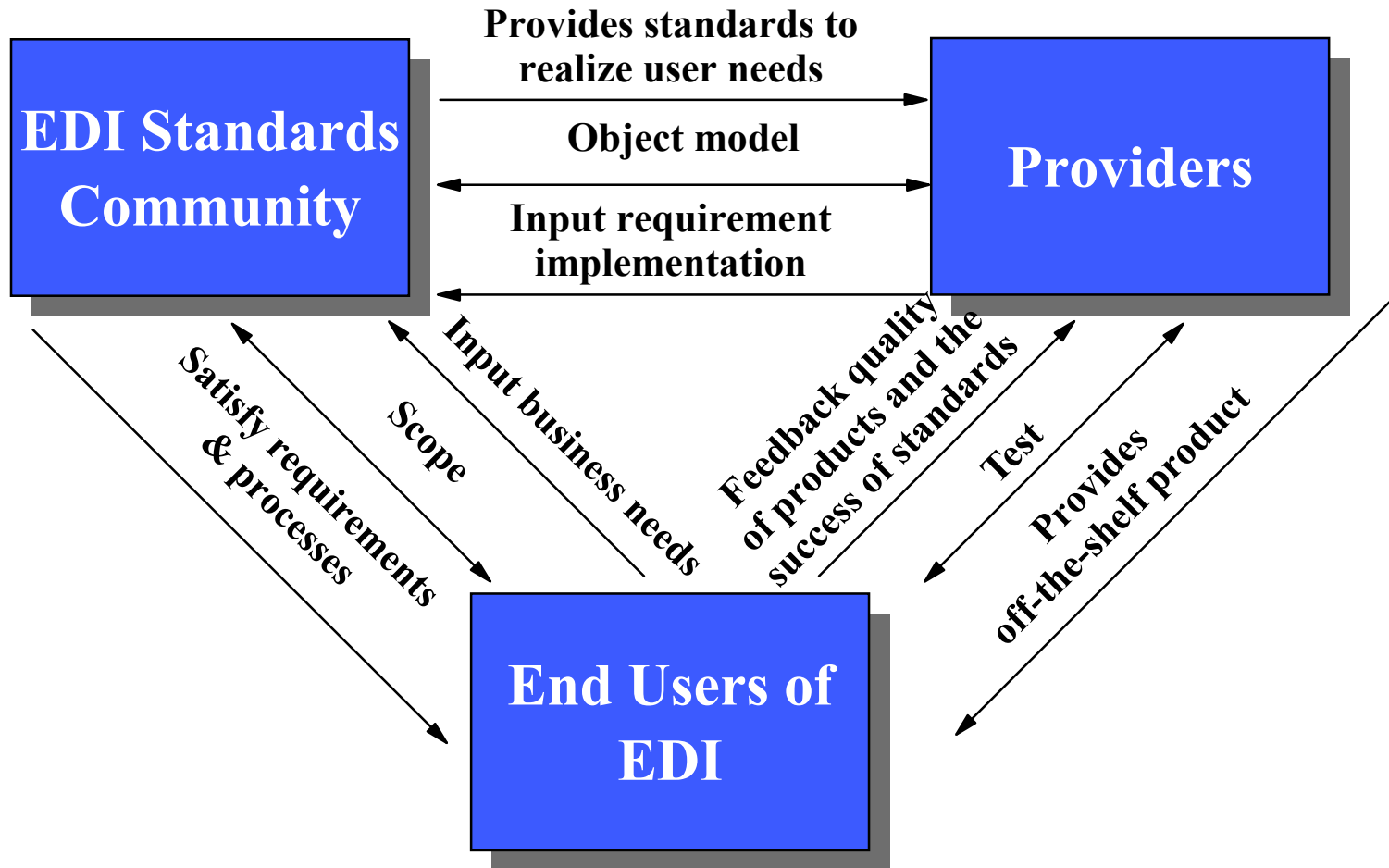
# What's Active?

---

- ✦ Define “To Be” world
- ✦ OO-edi Pilot
- ✦ Repository
- ✦ Awareness



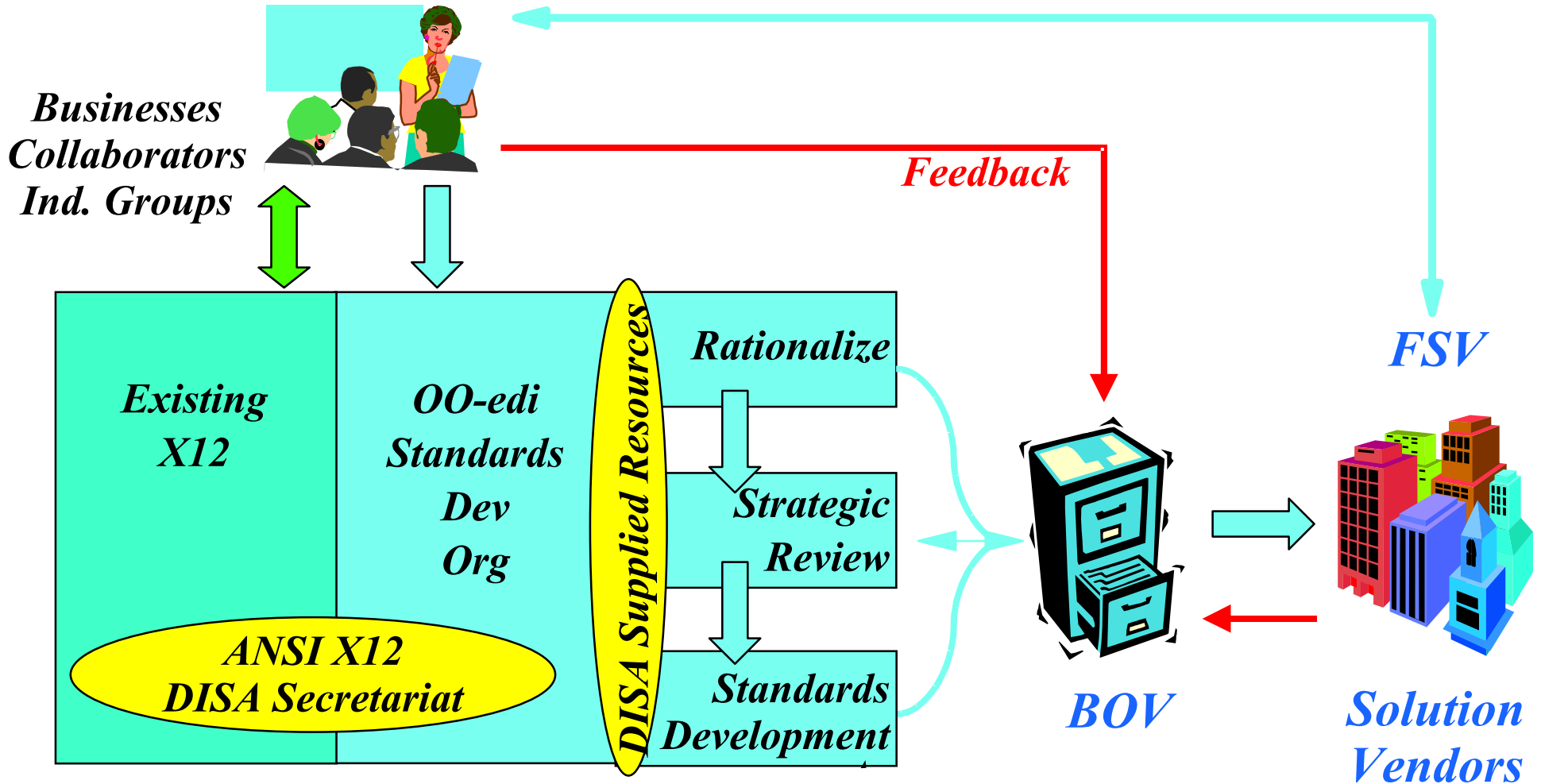
# Who Are The Users?



The different roles involved in developing EDI standards



# New Organizational Structure





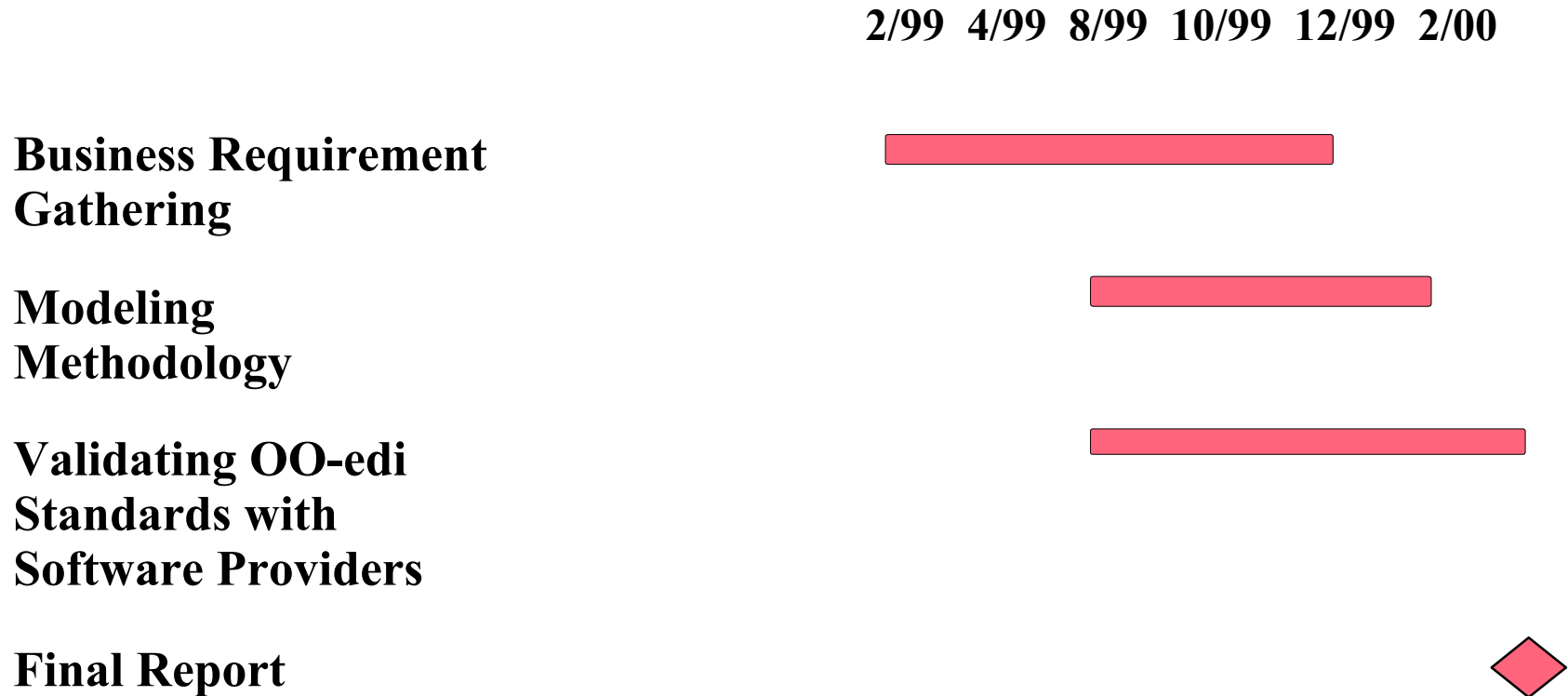
# Demonstration Project Procurement

---

- ✦ Payment Using the Purchase Card (PCARD)
  - + Identified, documented “Buyer” viewpoint & models
  - + Identifying, documenting “Seller” viewpoint & models
  
- ✦ Vendors
  - + IBM using Internet technologies
  - + OMG coordinating CORBA technologies



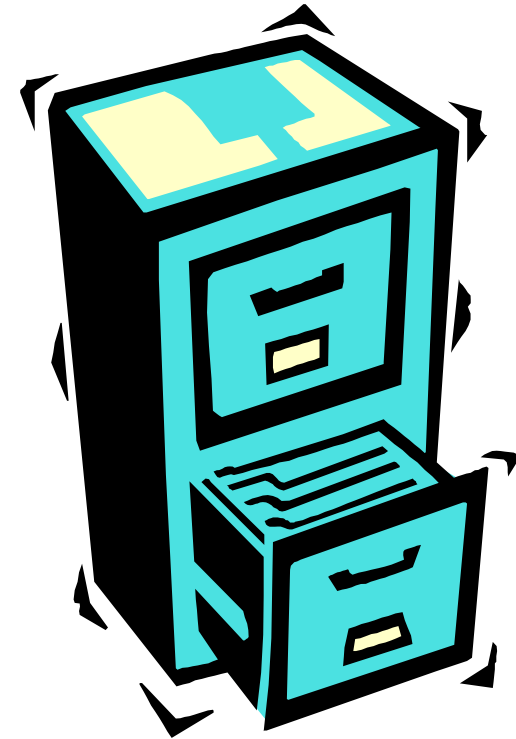
# Demonstration Project Major Events



# Repository

---

- ✦ Pilot with subset
- ✦ RFI for Repository produced
  - + International
  - + Limited response
- ✦ Decision Point
  - + New RFI or
  - + Proceed with existing
- ✦ Implementation begins 4Q99



# Bringing It All Together

---

✦ Established Direction

✦ Mobilized Resources

+ **SITG**: Mr. Harry Featherstone

★ **WG2: TO BE Model**: Mr. Ravi Kacker

★ **WG3: Methodologies**: Mr. Paul Levine

★ **WG4: OO-edition Demonstration Project**:

– Ms. Rachel Foerster and Mr. Michael McFarren

★ **WG5: Customer Requirements**: Ms. Clare Shemeta

★ **WG6 - Education and Awareness**: Ms. Sandra K. Paul

★ **WG7 - Repository**: Mr. Scott Nieman



# Bringing It All Together

---

**Standards Bodies for:  
Business process models  
Class libraries**

**Software Providers for:  
Application development  
expertise**



**Affordable “plug and play” business  
solutions for the user community**



# THANK YOU!

---

*For more details and ongoing status:  
[WWW.X12.ORG](http://WWW.X12.ORG) and select  
Next Generation Standards Development!*

Timothy A. Rose  
IBM Global Services  
200 E. Main St.  
Fort Wayne, IN 46802  
email: [timrose@us.ibm.com](mailto:timrose@us.ibm.com)

