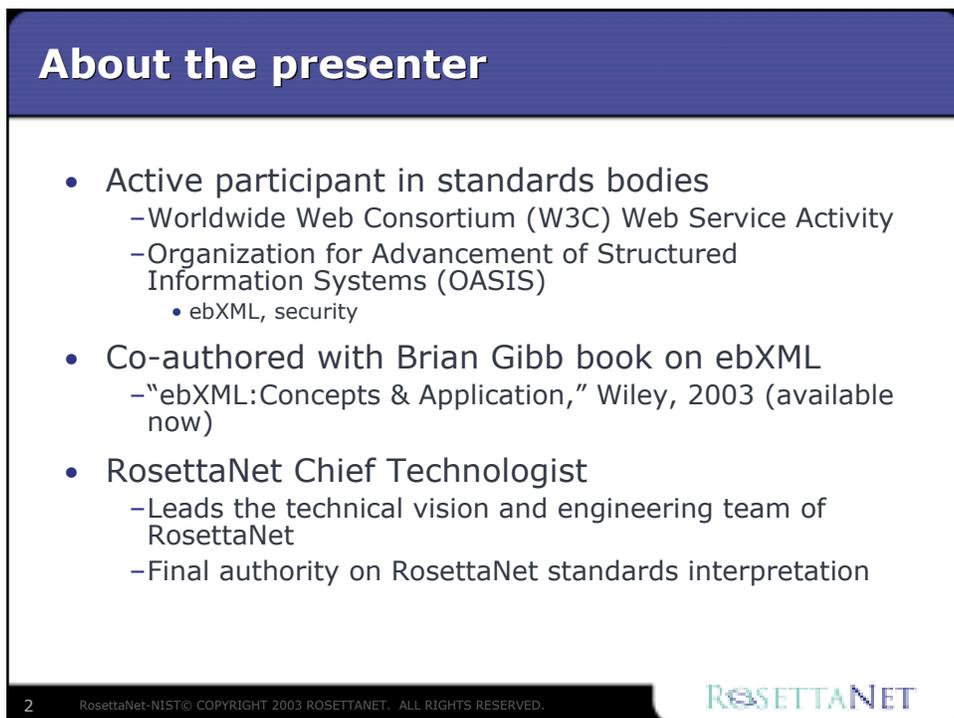


The slide features a background image of a stone tablet with ancient script on the left and a green rectangular area on the right containing faint, illegible text. The title "RosettaNet Overview" is centered in a white box, with the presenter's name and date below it. The RosettaNet logo is in the bottom right corner.

## RosettaNet Overview

Suresh Damodaran, Chief Technologist  
*June 2003*

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The slide has a dark blue header with the title "About the presenter" in white. The main content is a bulleted list of the presenter's credentials and roles. The RosettaNet logo is in the bottom right corner.

## About the presenter

- Active participant in standards bodies
  - Worldwide Web Consortium (W3C) Web Service Activity
  - Organization for Advancement of Structured Information Systems (OASIS)
    - ebXML, security
- Co-authored with Brian Gibb book on ebXML
  - “ebXML: Concepts & Application,” Wiley, 2003 (available now)
- RosettaNet Chief Technologist
  - Leads the technical vision and engineering team of RosettaNet
  - Final authority on RosettaNet standards interpretation

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## Contents

- RosettaNet: A Brief Introduction
  - Industry sectors
  - Current members
  - Adoption
- Specifications Suite: Today and Tomorrow
  - What's there today
  - Broad roadmap
- Observations on Convergence
  - Exactly where to converge
  - Key necessities

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## RosettaNet (1998 – present)

- RosettaNet is named after the **Rosetta Stone**, which, carved with the same message in three languages, led to the understanding of hieroglyphics.
- RosettaNet is a **global** non-profit consortium of more than **400 companies** working to create, implement and promote **open** e-business process standards
- Hi-tech **manufacturing supply chain**
- Merged with UCC (Uniform Code Council) in August 2002

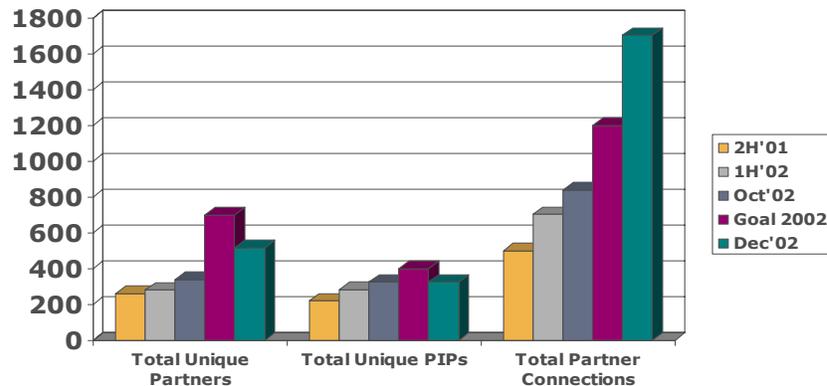
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## Accelerate Global Adoption & Production Implementation of Current Standards

### Unique Partners, PIPs® and Connections Based on Reporting Board Members Inputs



Source: Board Scorecards Mar-03

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## RosettaNet Programs

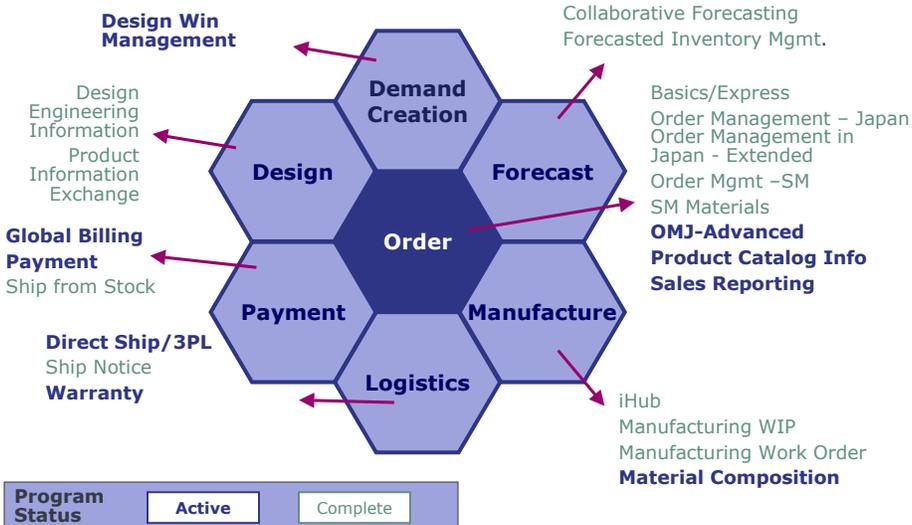
- Milestone Programs
  - Each Milestone program consists of business experts from member companies who define the requirements for
    - XML Message Contents
    - Sequence in which XML Messages are sent among trading partnersto accomplish a business requirement.
  - Each Milestone program creates one or more PIPs® (Partner Interface Process)
- Foundational Programs
  - Infrastructure development to develop and implement PIPs

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## RosettaNet Milestone Programs *eBusiness Process Alignment*



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## RosettaNet Milestone Programs *Implementation Scorecard (2002-2004)*

	Milestone Program	Board	Total Unique Partners	Total Unique PIPs®	Total Connections	Milestone
Complete	Order Management (SM)	SM	17+	4	40+	06.2002
	Mfg Work in Process (2)	SM	7	1	8	09.2002
	Forecasted Inventory Mgmt	SM	9	4	26	10.2002
	Mfg Work Order	SM	5	2	10	10.2002
	Order Mgmt In Japan - Ext	EC	166	16	791	12.2002
	Design Engineering Info	EC	14	1	22	12.2002
	Ship from Stock (2)	EC	5	4	16	12.2002
	Collaborative Forecasting (2)	EC	6	3	26	03.2003
	Ship Notice	SM	6	1	8	05.2003
	Global Billing	SM	10	2	20	06.2003
Active	Warranty	IT	5	3	22	06.2003
	Direct Ship / 3PL	EC	19	8	114	09.2003
	Design Win (2)	EC	10	4	102	12.2003
	Product Catalog Info	IT	6	1	36	12.2003
	OMJ - Advanced	EC	200	15-20	TBD	12.2003
	Material Composition	EC	TBD	1-2	20	03.2004
	Sales Reporting	IT	TBD	1-2	20	06.2004
	Payment	EC	TBD	1	50	12.2004

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# PIP® Inventory

Cluster 0: RosettaNet Support	Cluster 1: Partner, Product and Service Review	Cluster 2: Product Information	Cluster 3: Order Management	Cluster 4: Inventory Management	Cluster 5: Marketing Information Management	Cluster 6: Service and Support	Cluster 7: Manufacturin g
Segment 0A: Administrative	Segment 1A: Partner Review  Segment 1B: Product and Service Review	Segment 2A: Preparation for Distribution  Segment 2B: Product Change Notification  Segment 2C: Product Design Information	Segment 3A: Quote and Order Entry  Segment 3B: Transportation and Distribution  Segment 3C: Returns and Finance  Segment 3D: Product Configuration	Segment 4A: Collaborative Forecasting  Segment 4B: Inventory Allocation  Segment 4C: Inventory Reporting  Segment 4D: Inventory Replenishment  Segment 4E: Sales Reporting  Segment 4F: Price Protection	Segment 5A: Lead Opportunity Management  Segment 5B: Marketing Campaign Management  Segment 5C: Design Win Management (EC)  Segment 5D: Ship from Stock and Debit (EC)	Segment 6A: Provide and Administer Warranties, Service Packages and Contract Services  Segment 6B: Provide and Administer Asset Management  Segment 6C: Technical Support and Service Management	Segment 7A: Design Transfer  Segment 7B: Manage Manufacturing WO & WIP  Segment 7C: Distribute Manufacturing Information

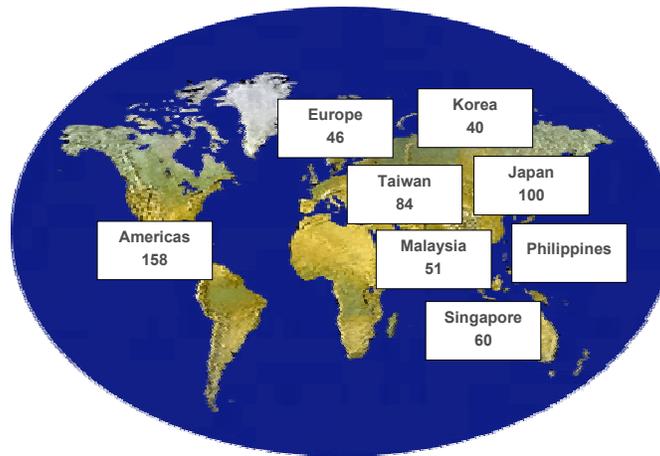
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# RosettaNet Growth & Expansion

## *New Markets, New Geographies*



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## Electronic Components (EC) Supply Chain Board

- Agilent Technologies
- Arrow Electronics
- Avnet
- Cisco Systems
- Hitachi Semiconductor
- HP
- IBM
- Intel
- Micron Technology
- Molex
- Motorola
- National Semiconductor
- NEC
- Nokia
- Philips Semiconductors
- Samsung Electronics
- Sony
- STMicroelectronics
- Texas Instruments
- Toshiba
- Tyco Electronics
- Xilinx

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## Information Technology (IT) Supply Chain Board

- Arrow Electronics
- Cisco Systems
- HP (Compaq)
- Federal Express
- GSA
- IBM
- Ingram Micro
- Intel
- Solectron
- Sony
- Sun Microsystems
- Trilogy
- UPS Logistics

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## Semiconductor Manufacturing (SM) Supply Chain Board

- Agere Systems
- Agilent Technologies
- Air Products & Chemicals
- Amkor Technology
- Applied Materials
- ASE
- IBM
- Infineon Technologies
- Intel
- Micron Technology
- Motorola
- National Semiconductor
- NEC
- Samsung Electronics
- Shinko Electric Industries (SEI)
- Silicon Precision Industries (SPIL)
- Taiwan Semiconductor Manufacturing Company (TSMC)
- Texas Instruments
- Tokyo Electron Limited (TEL)
- Toppan Printing
- Toshiba
- UMC

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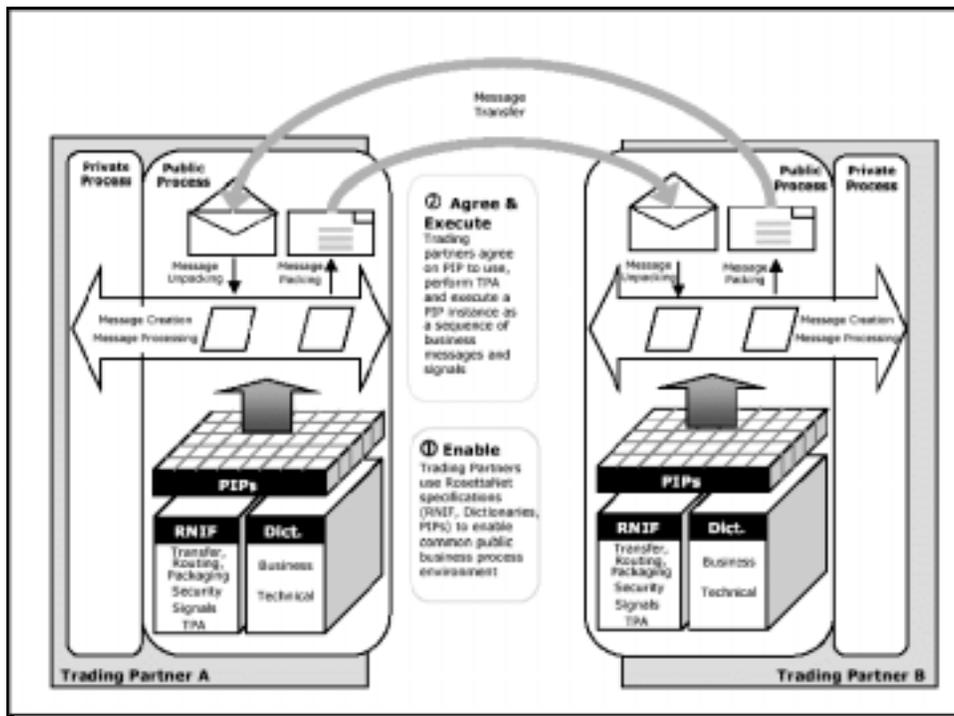
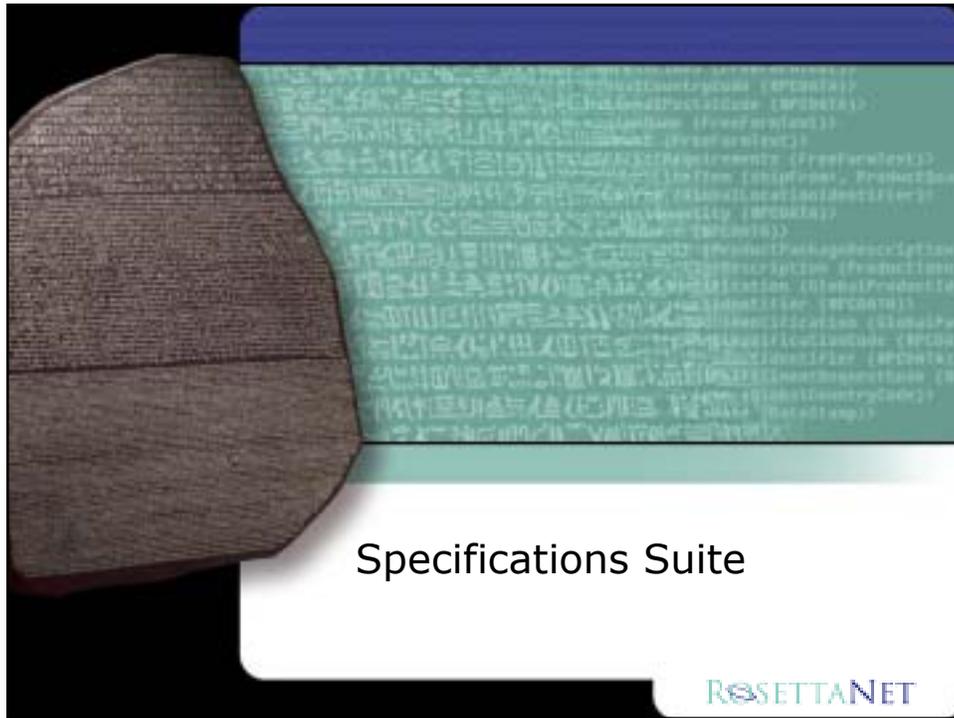
## Solution Provider Board (SP)

- Drake Certivo
- E2open
- Fujitsu Limited
- i2 Technologies
- IBM Software
- IBM Consulting (PWC)
- Inovis
- Manugistics
- Microsoft
- NEC
- Oracle
- SAP
- Sterling Commerce
- TIBCO Software
- Viacore
- webMethods

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## RosettaNet Specifications Today

- RosettaNet PIPs®
  - Business Document
  - Business Choreography
- RosettaNet Dictionary
  - Business
  - Technical
- RNIF (RosettaNet Implementation Framework)
  - Messaging Specification

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## RosettaNet Technical Guiding Principles

- Automation is good
  - Reduces errors, complexity, and implementation resources
  - Everybody uses same specifications
  - The projected ROI must be good
- Cheaper automation is better
  - The projected ROI must be really good
  - The horizontal & vertical specifications are interoperable with customization
- Cheaper and configurable automation is best
  - The projected ROI must leave no option but automate
  - Easy configurability and installation of solutions
  - Low cost enablement for lower tiers

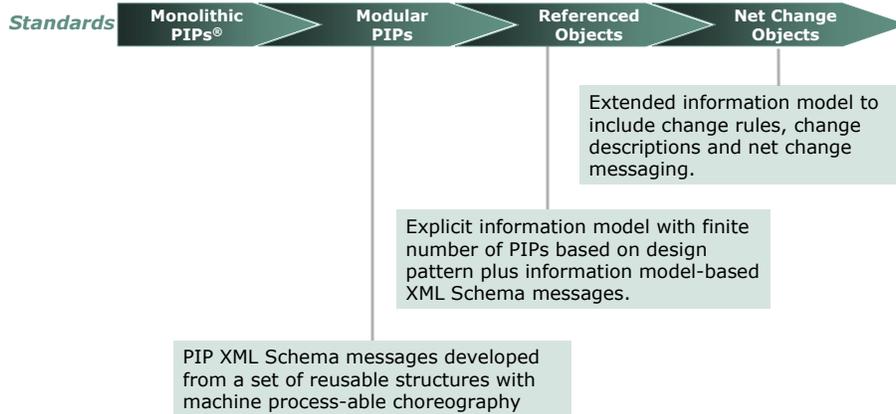
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# RosettaNet Architecture Roadmap

## Overview



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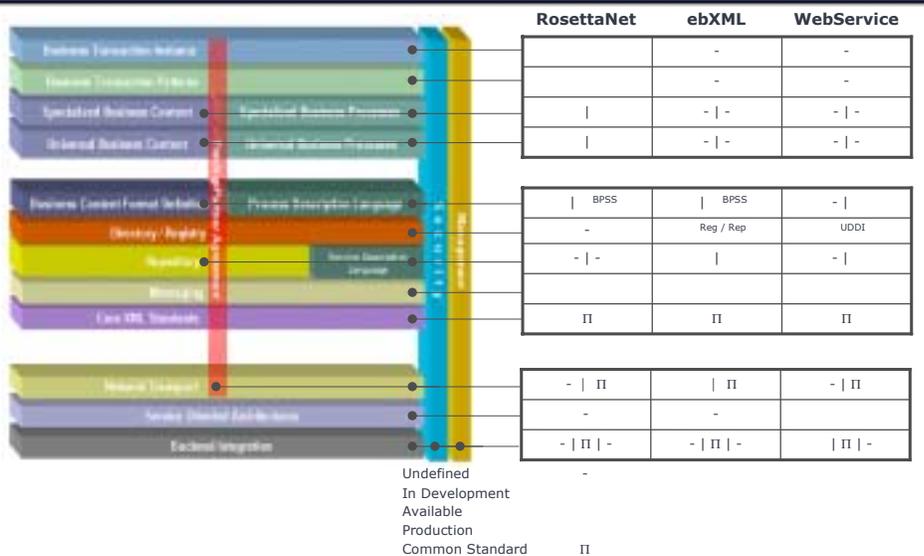
The slide features a large, textured stone tablet on the left side, partially overlapping a computer screen. The screen displays lines of XML code, including elements like `ProductDescription`, `Manufacturer`, and `ProductIdentification`. The background is dark, and the overall theme is the convergence of traditional and modern technology.

## Convergence Observations

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# Standards Convergence

## Summary



# Barriers to Interoperability

- Horizontal specifications interoperability
  - Commercial interests and market hype on new technology
  - We all need a toothbrush...
  - Testing and certifying interoperability is expensive
- Ambiguous, inconsistent, high optionality specifications
  - Non-machine processable
- Interoperable customization of vertical specifications
  - Industry (domain) specific
  - TP specific
- Conform to legacy/proprietary

