

Interstage XWand vs Solvency II regulatory XBRL reporting

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Center of Excellence of Interstage XWand for EMEA region

Tallinn, 11th of April 2012

Agenda

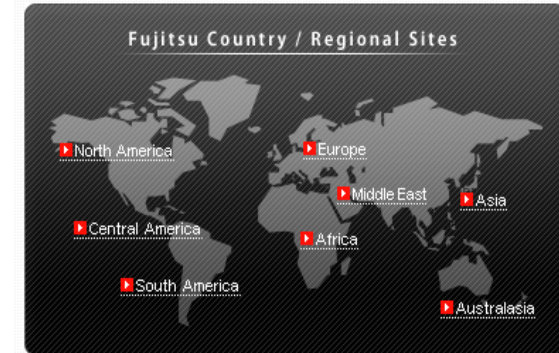


- Fujitsu at Glance
- Interstage XWand Suite
- Live demo
- XWand API Introduction
- Summary
- Case studies

Fujitsu at a Glance



- **Headquarters:** Tokyo, Japan
- **Established:** June 1935
- **Consolidated revenue:** US\$55 billion*
- **Employees:** Over 170,000 worldwide
- **Sales and support operations in over 100 countries**
- **Fujitsu Limited shares are listed on:** the Tokyo Stock Exchange, as well as the Osaka, Nagoya and London exchanges
- Leading Japanese information and communication technology (ICT) company offering a full range of technology products, solutions and services.
- We use our experience and the power of ICT to shape the future of society with our customers.



* All Yen figures have been converted to U.S. dollars for convenience only at a uniform rate of US\$1 = 93 yen, the approximate closing rate on March 31, 2012

Fujitsu's XBRL Expertise



■ Leadership in XBRL Consortium

- Europe, Poland, US, Spain, Korea and Japan
- Chaired XBRL 2.1 Specification Working Group in 2002
- At-large member - Intl Consortium
- Member of Best Practice Board



■ Leading XBRL Specification Efforts

- Specification – XBRL 2.1/2.0
- Best practices – FRTA, FRIS
- Conformance Suite
- Dimensions, LRR
- Latest activities – Formula, Versioning, Rendering



■ Leading XBRL tools provider

- 300+ downloads / month
- Free access for consortium members
- Extensive experience with designing and implementing XBRL based solutions
implementation of the largest XBRL projects around the world (XBRL Platform for US SEC, EDINET for FSA in Japan, TDNet for Tokyo Stock Exchange, SBR Australia)

Fujitsu provides XBRL Services



- Wide range of XBRL-related services are available
- Products: Interstage XWand: XBRL middleware
- System Integration
 - Vast experience in XBRL system integration:
 - Japan Financial Service Agency: EDINET system
 - Tokyo Stock Exchange: TDnet system
 - Bank of Spain
 - Korean Financial Supervisory Service
 - Etc.
- Taxonomy Development
- Software development - e.g., applications to extract XBRL data from legacy applications, transformation of data to/from XBRL

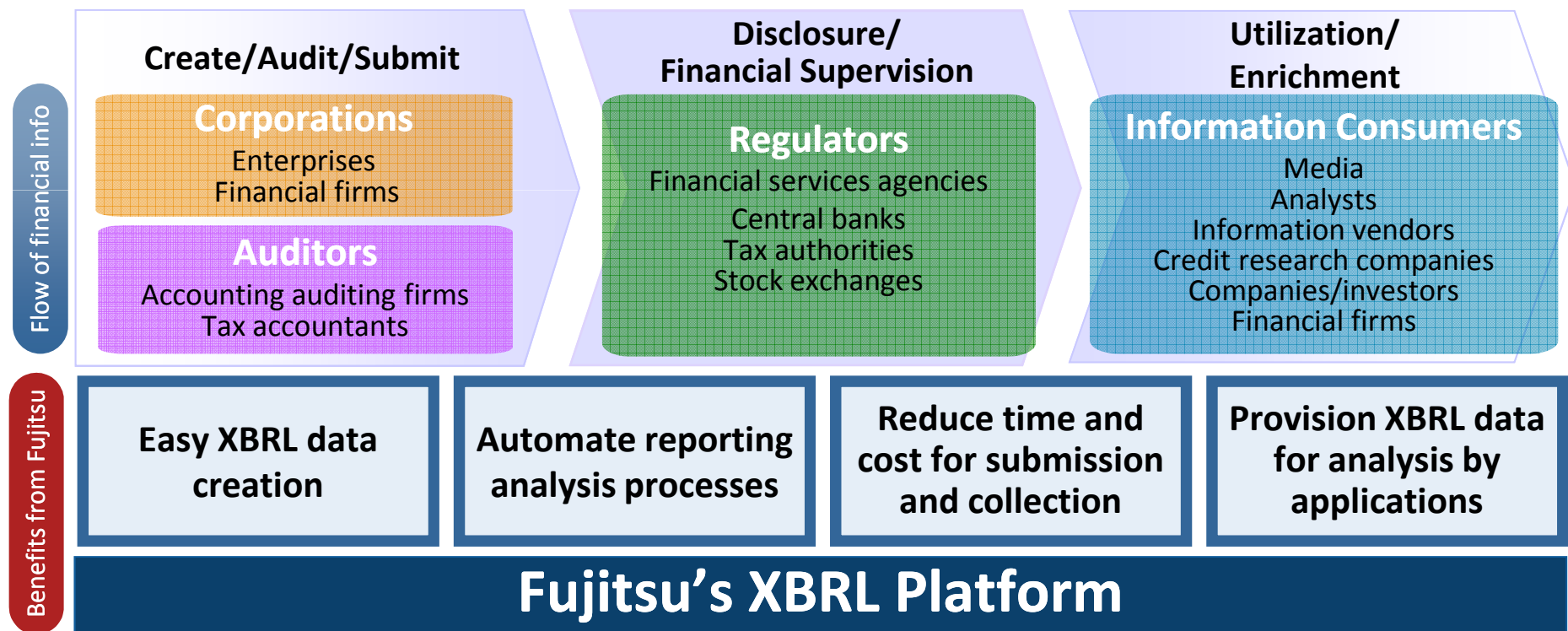
All this combined with the use of the most modern technology enables our customers to achieve their business goals.

Fujitsu Interstage XWand

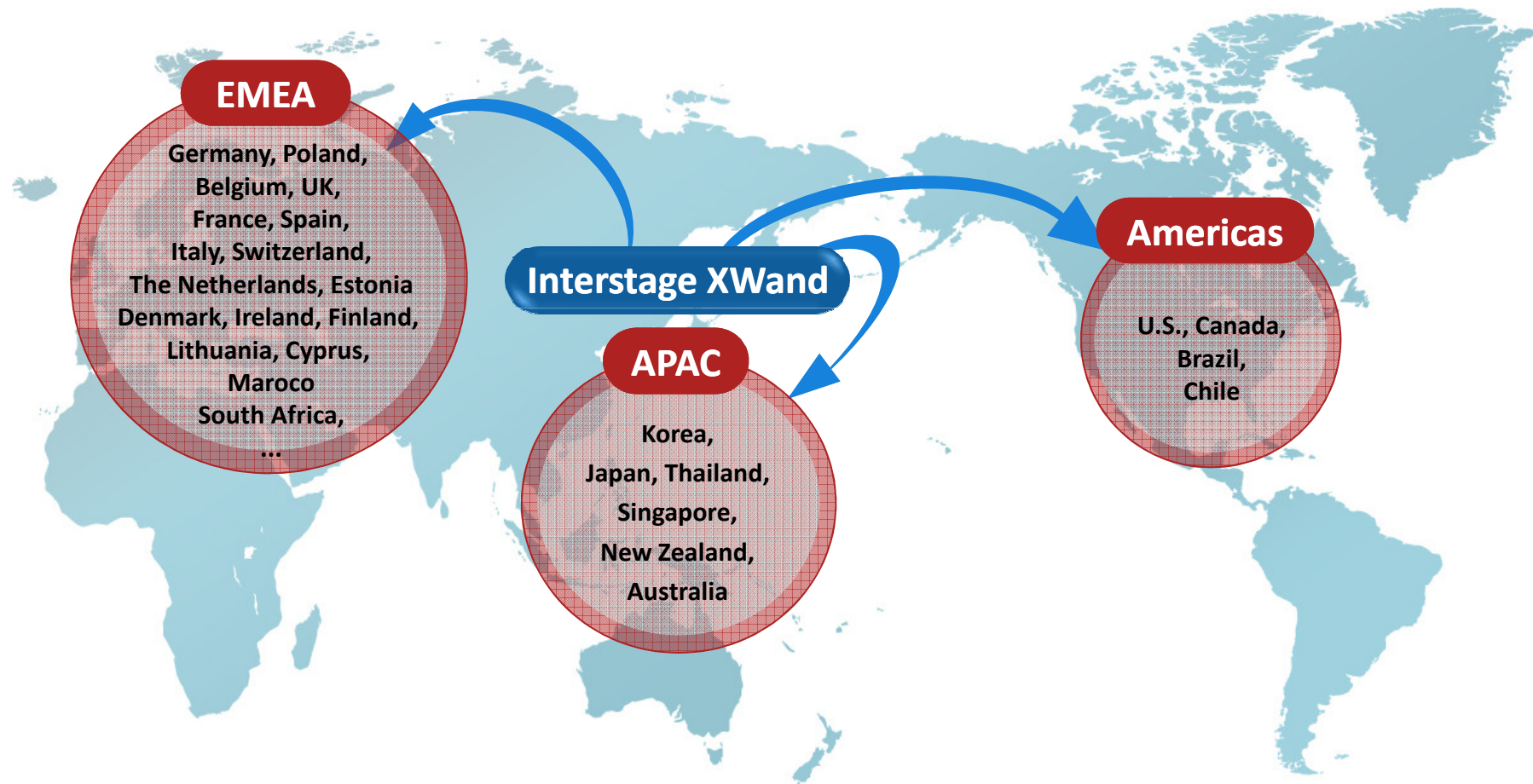
Complete XBRL Software Offering



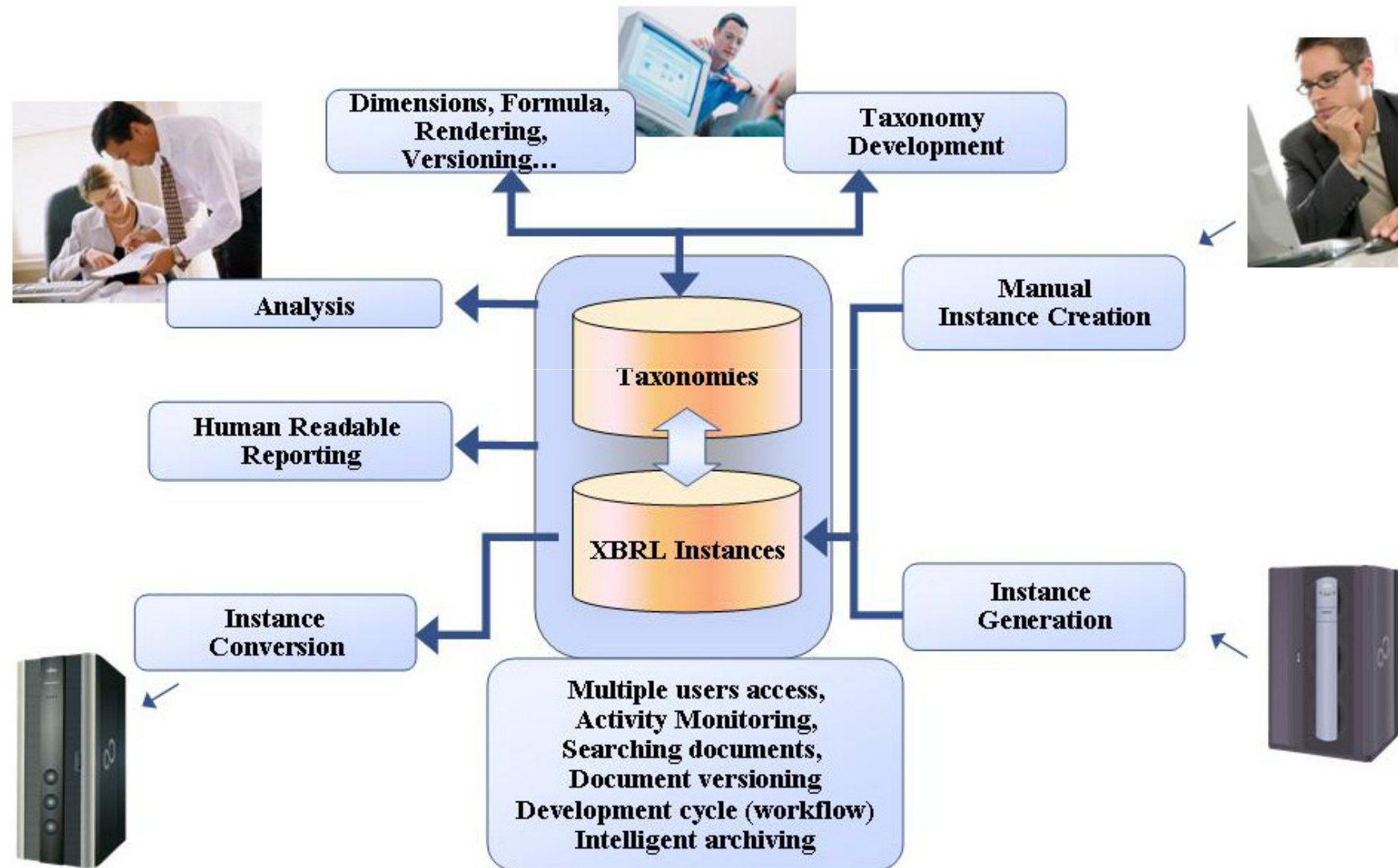
Interstage XBRL Platform supports all participants in XBRL chain



Adopted by customers in 30 countries



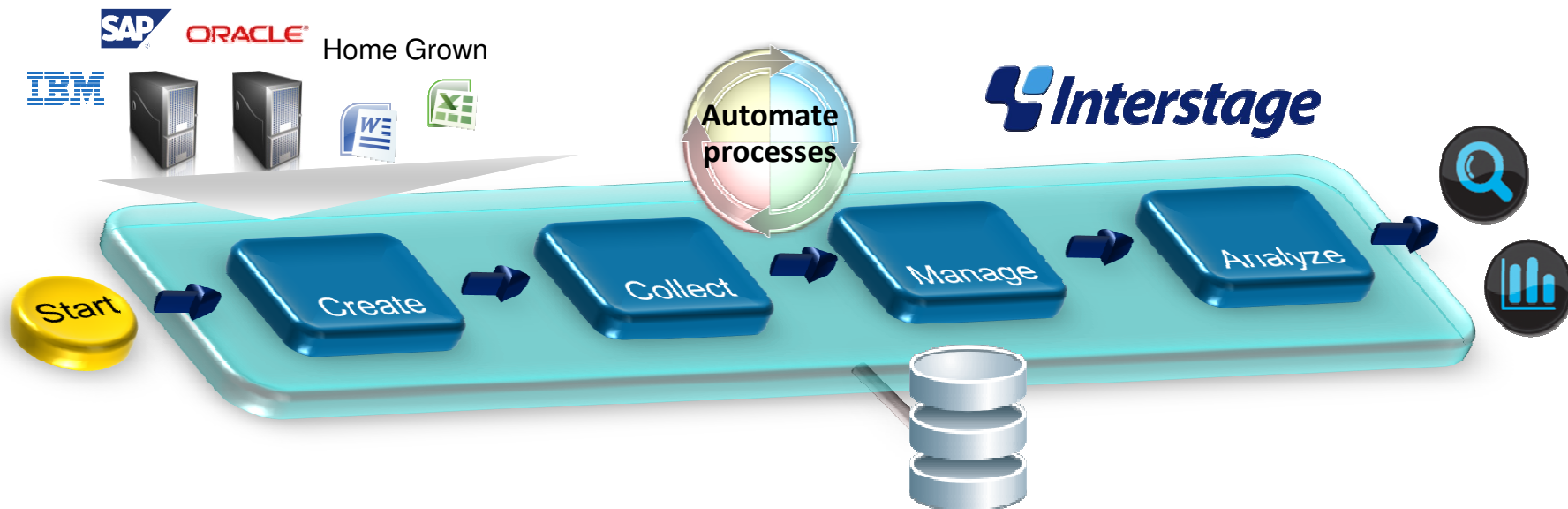
Fujitsu XBRL Solutions



Fujitsu's XBRL Platform



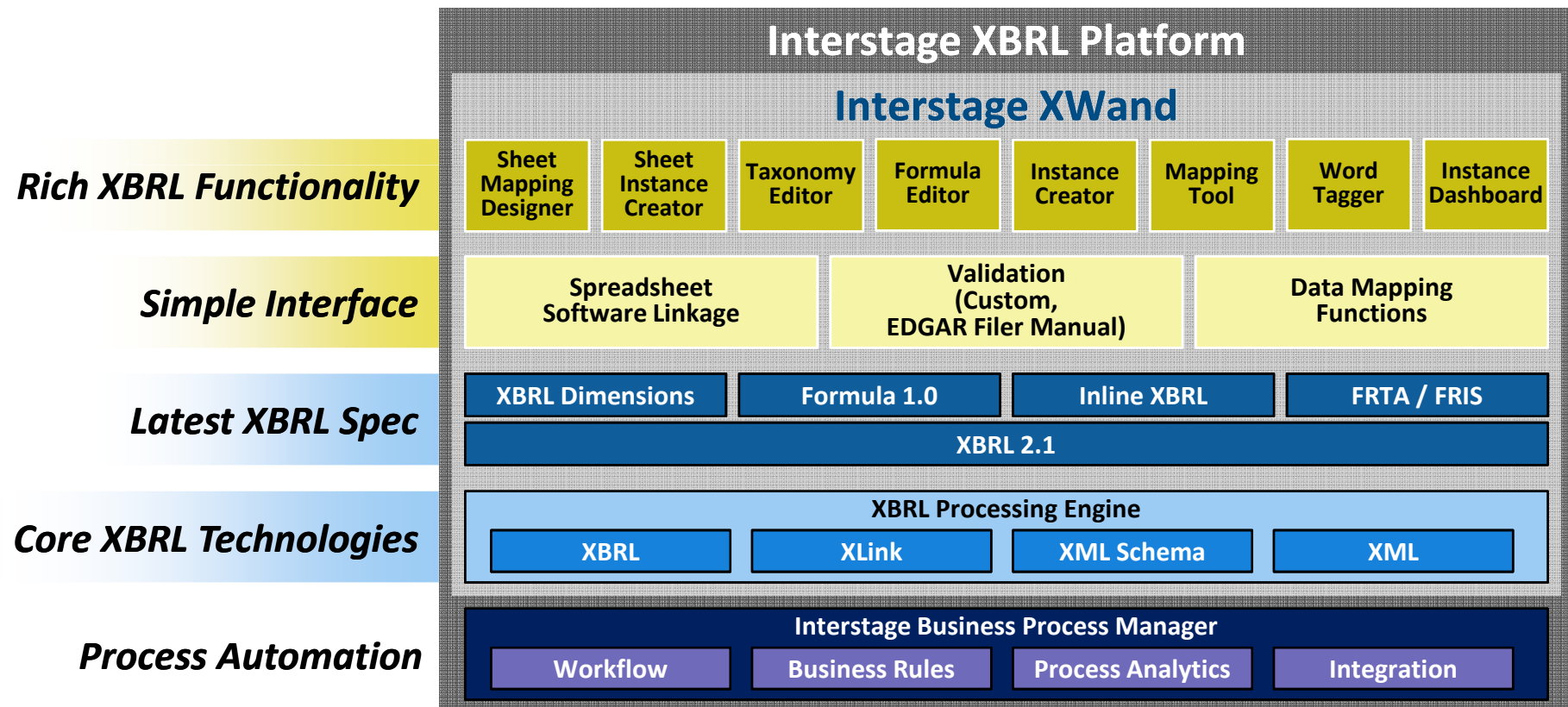
- Combines comprehensive XBRL and process automation capabilities
- Automate reporting and analysis processes
- Facilitate faster and more accurate decisions



Interstage XWand Products



- XBRL processing engine for Windows, Linux and Solaris - **XWand Runtime**
- XBRL Application development environment for Java and .NET - **XWand Application Developer**
- XBRL document & taxonomy editing and processing tools - **XWand Toolkit**



Interstage XWand for Regulators

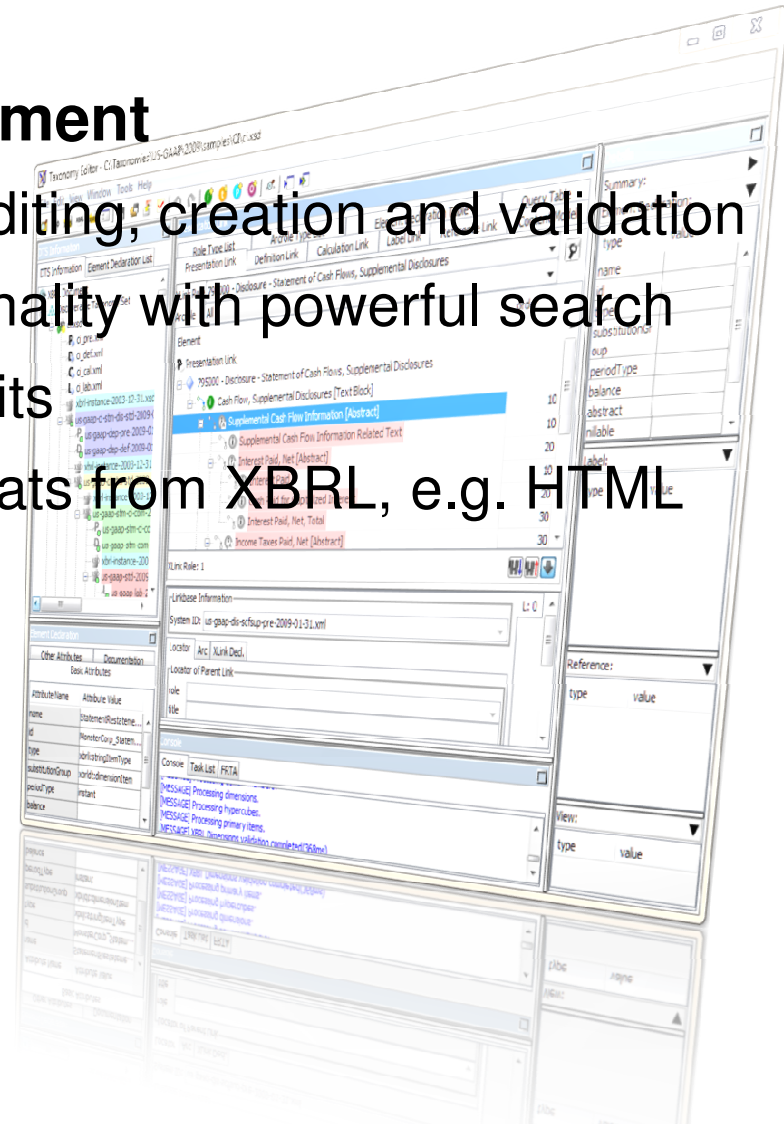


Enhance Financial Platform with XBRL



■ Feature-rich taxonomy management

- Support all aspects of taxonomy editing, creation and validation
- Easy to use drag-and-drop functionality with powerful search
- Manage unlimited contexts and units
- Generate documents in other formats from XBRL, e.g. HTML



Adhere to Complex Rules



■ Fully validate XBRL documents

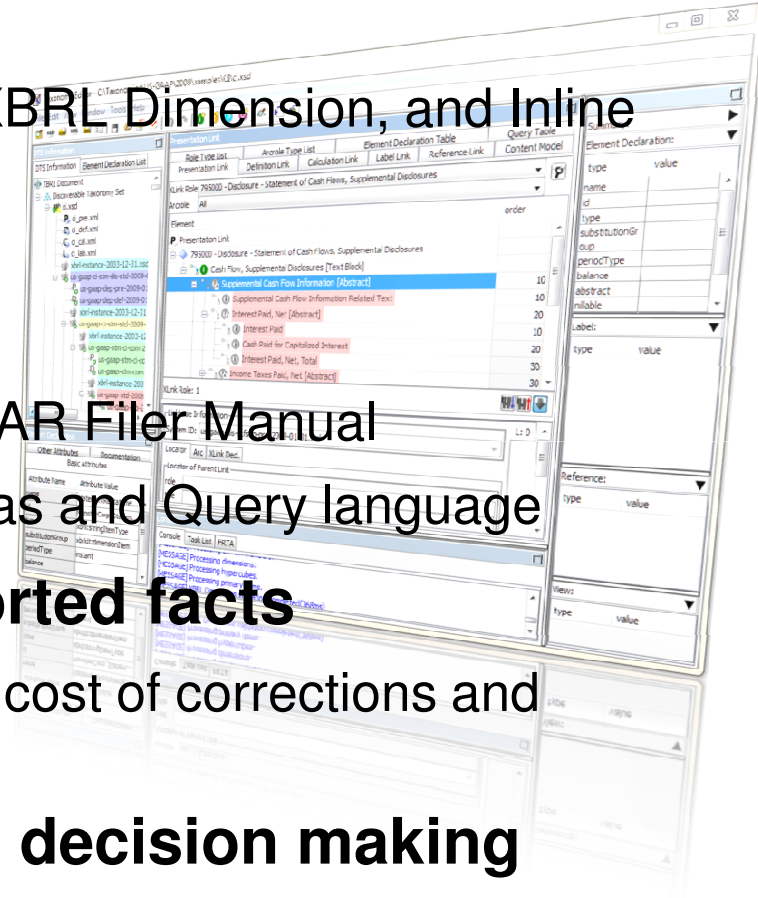
- Support XBRL 2.1, Formula 1.0, and XBRL Dimension, and Inline XBRL
- Create customized validation rules
- View validation reports in Excel format
- Validate XBRL filings with SEC's EDGAR Filer Manual
- Build custom validations using Formulas and Query language

■ Perform semantic checks of reported facts

- Ensure error free reports, reduce time & cost of corrections and resubmissions

■ Optimize validation, analysis and decision making processes

- Improve collaboration and utilization of people, applications and decisions



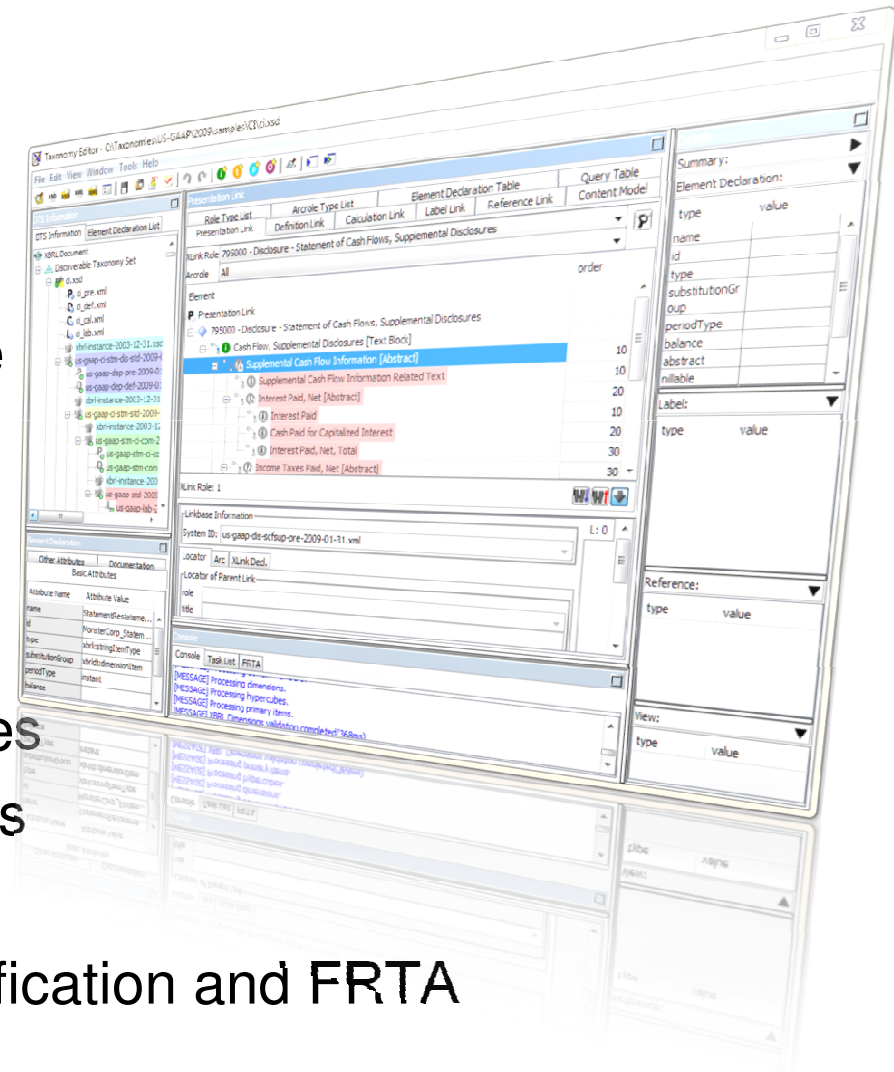
Interstage XWand suite

- Taxonomy Editor
- Formula Editor
- Integration with MS Office
- XBRL viewers and editors
- CSV integration

Taxonomy Editor



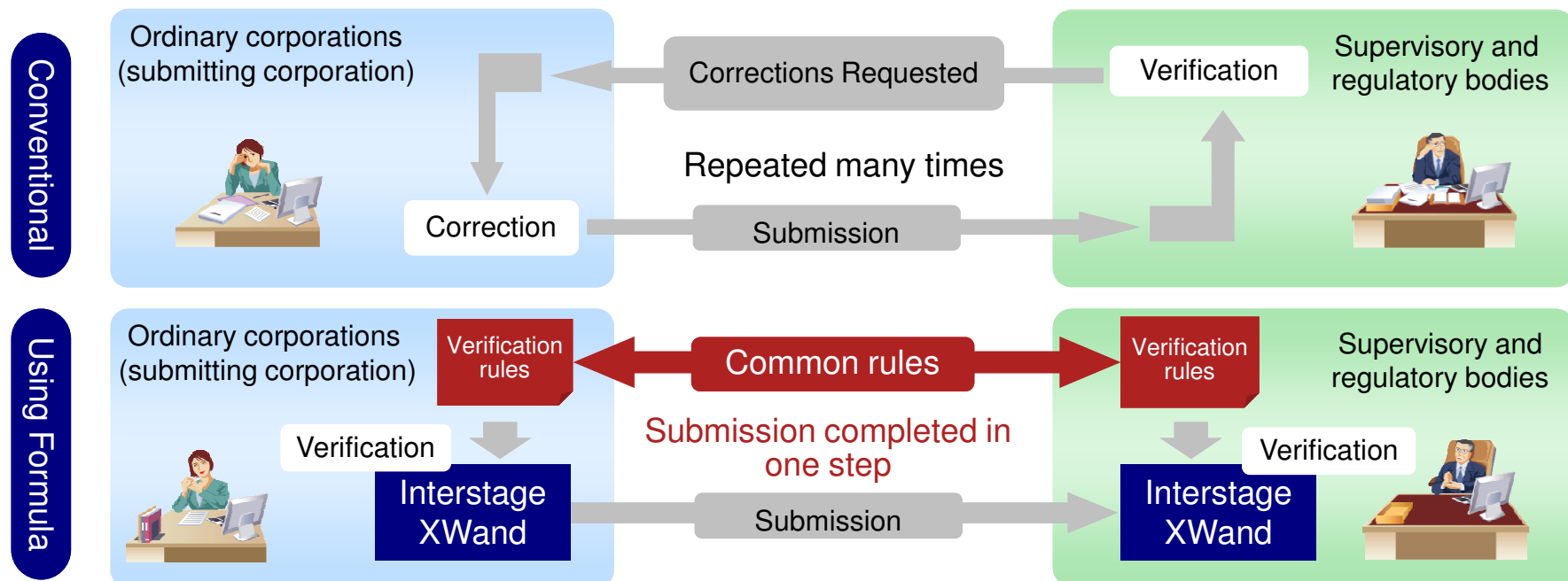
- Views based on:
 - Schema (concepts)
 - Linkbase (relationships)
- Browse taxonomy graphically
- Powerful search capabilities
- Intuitive and simple user interface
 - Discoverable Taxonomy view
 - Color coded elements
 - Drag and drop enabled
 - Context aware menus
- Manage element and link attributes
- Compare and contrast taxonomies
- Create custom reports in HTML
- Supports XBRL Dimension Specification and FRTA



Formula Editor

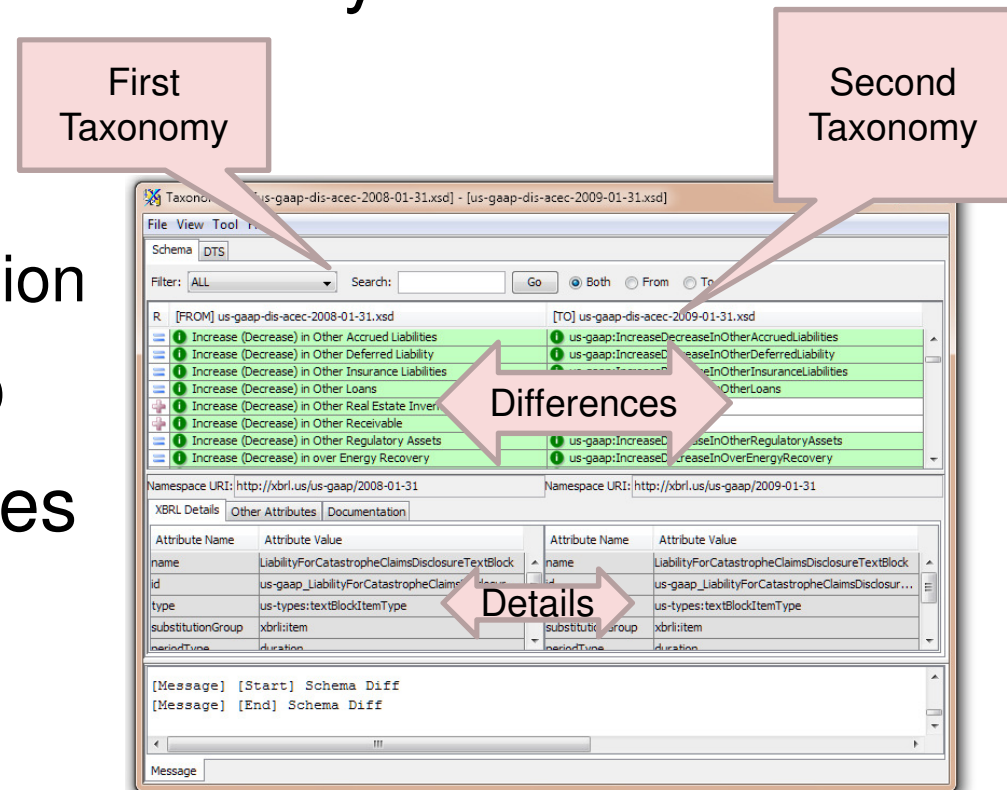


- Supports Formula 1.0 specification (Formula 1.0 CR 2008-11-30)
- Graphical interface to create business rules for semantic checking of XBRL documents
- Expression builder with logic, mathematical and custom functions
- Reduce the cost associated with correction and resubmission
 - Typical Savings: Time \Rightarrow 50% reduction, Cost \Rightarrow 40% reduction



Taxonomy Diff

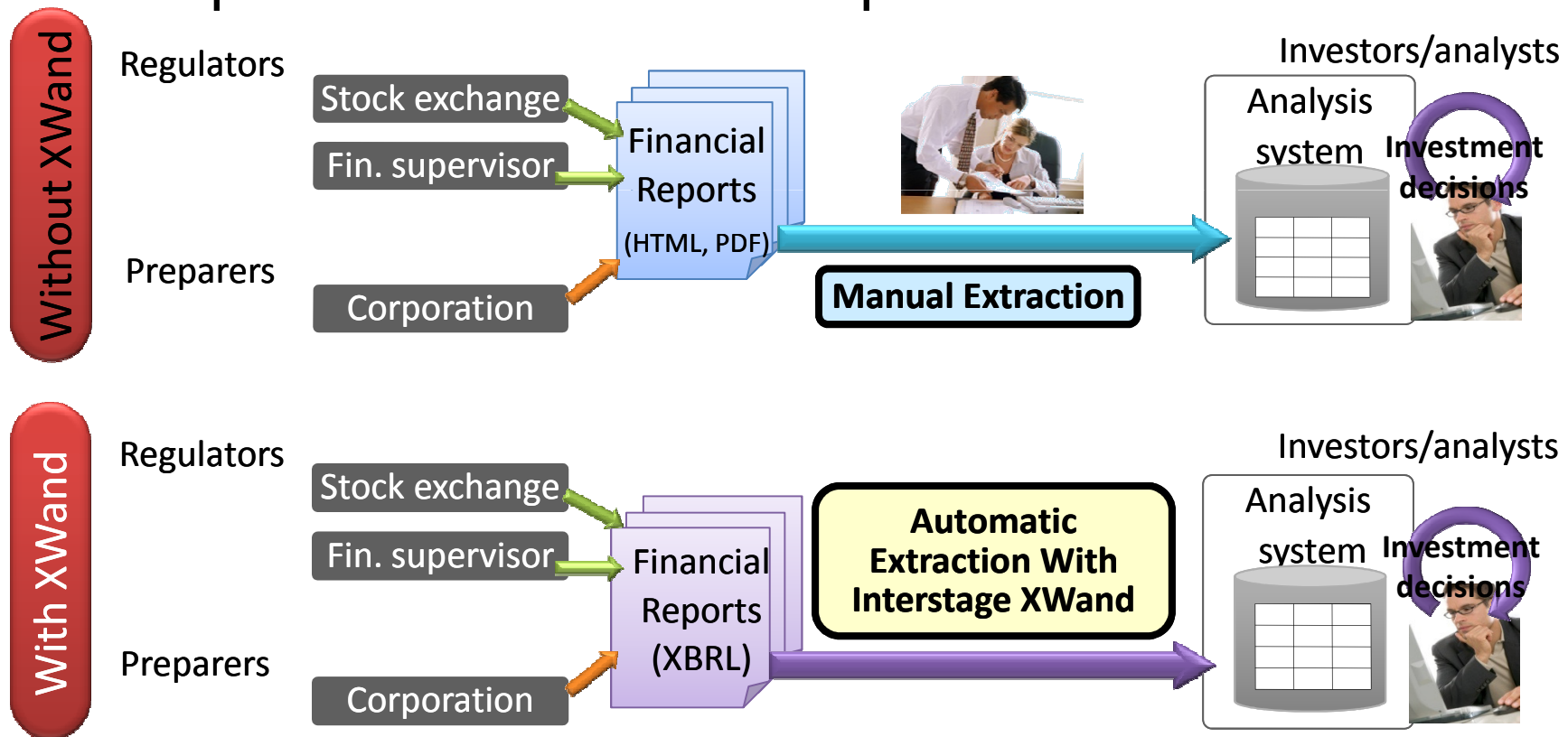
- Compare and contrast taxonomies
- Supports all XBRL 2.1 compliant taxonomies
- Displays both taxonomies side-by-side
 - Elements
 - Attributes
 - Documentation information
- Displays visual hints to represent the differences



Data mapping for storing XBRL in RDB



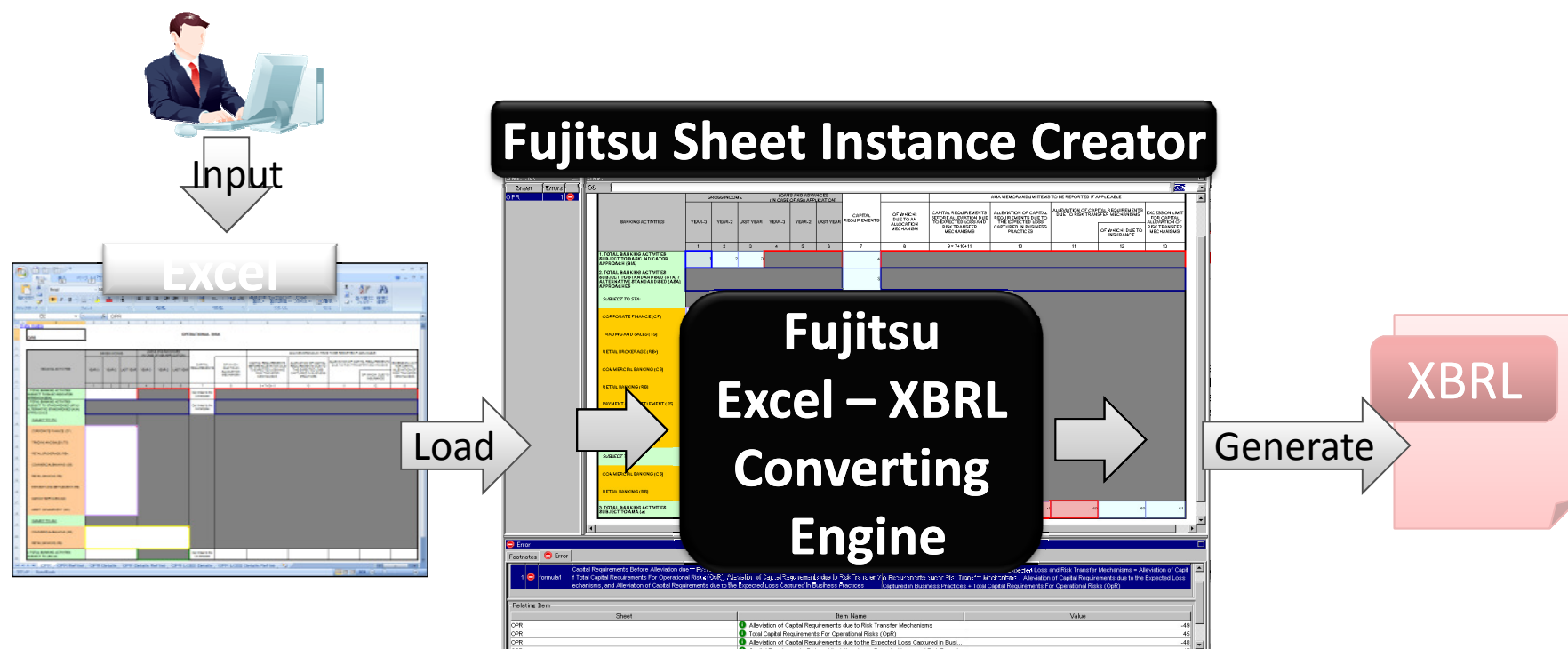
- Map data from one XBRL Taxonomy into another
- Extract data from XBRL into CSV
- Map Once – Reuse Multiple Times



XBRL generation by Excel



- Generates XBRL instances from Excel
 - Application automatically generates XBRL instances just by filling Excel sheets used in the submission scheme currently running.
 - Supports .xls and .xlsx format introduced in Microsoft Office 2007



XBRL generation by Word



- Add-in for MS Word
- User can generate XBRL document via MS Word
- No extensive knowledge of XBRL required
- Automated tagging enhanced

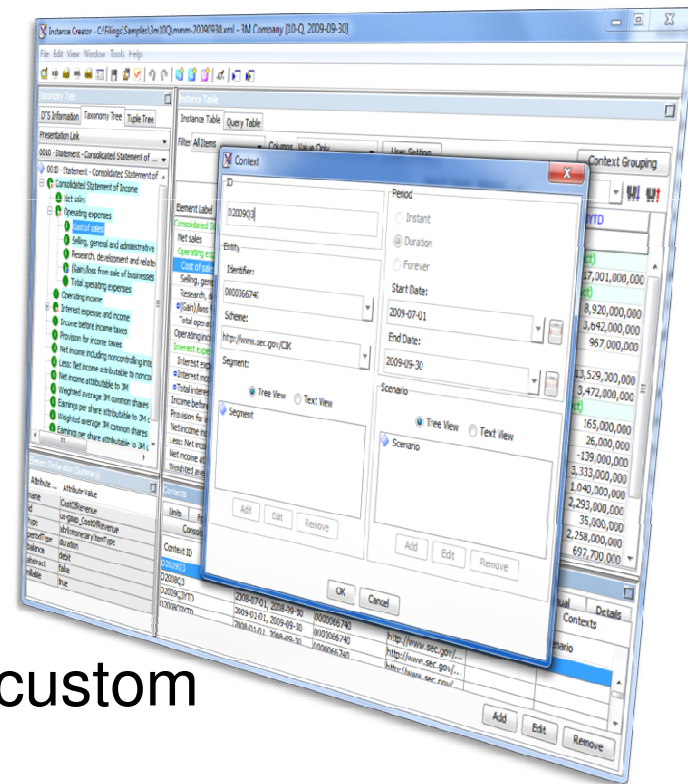
The screenshot shows the Microsoft Word interface with the 'XWand' ribbon active. The ribbon contains buttons for 'Import Taxonomy', 'Export XBRL', 'Export iXBRL', 'Insert Tag', 'Remove Tag', 'Options', 'Tagging', and 'Settings'. Below the ribbon is a financial table with the following data:

(In millions, except per share amounts) (Unaudited)			
Three Months Ended September 30,		2009	2008
Revenue	\$	12,920	\$ 15,051
Operating expenses:			
Cost of revenue		2,842	2,848
Research and development		2,065	2,283
Sales and marketing		2,790	3,044
General and administrative		741	887
Employee severance		—	—
Total operating expenses		8,438	9,062
Operating income		4,482	5,999
Other income (expense)		283	(8)
Income before income taxes		4,765	5,991

Instance Creator



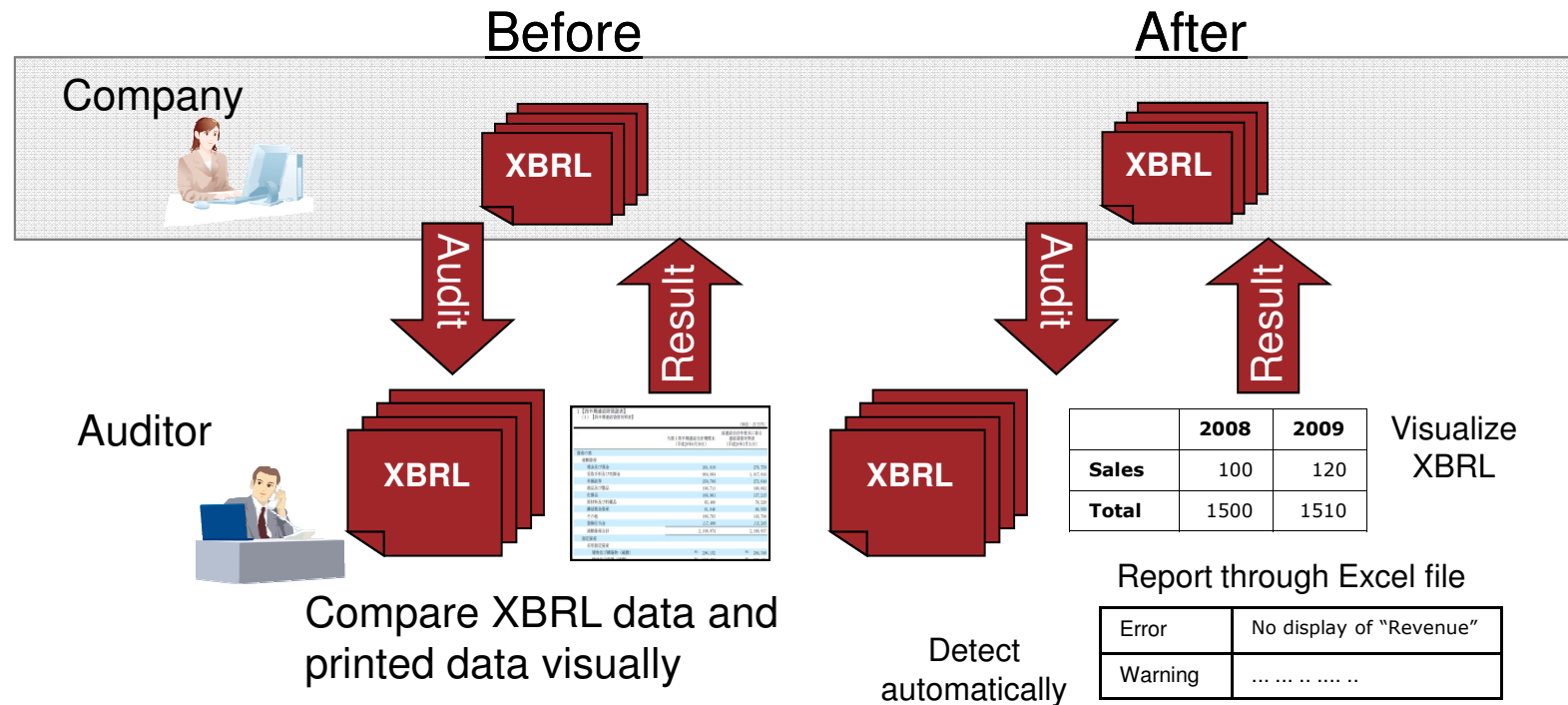
- Intuitive and simple user interface
 - Multiple views (schema, linkbases, facts, contexts)
 - Drag and drop enabled
 - Powerful search and filtering
 - Context aware menus
- CSV import and export
- Custom reports in HTML
- Multiple validation methods
 - XBRL, Dimensions, SEC, FRIS, custom query



XWand Viewer



- Validate documents against XBRL 2.1, iXBRL, and Dimensions specifications as well as regulator specified guidelines
- View validation reports in Microsoft Excel, HTML and other formats
- Provide multiple views of the reports and underlying taxonomy
- Compare and contrast any two instances



Instance Dashboard



- Compare and analyze multiple reports against pre-built and user defined matrix between Instances
- Analyze across multiple timeframes (e.g. year-over-year analysis)
- Facilitate data analysis, and recommendations for investors

The screenshot shows a software window titled "Instance Dashboard - C:\Filings\Samples\GeneralElectric\10Q\ge-20090930.xml, ...[2 Files]". The interface includes a menu bar (File, Edit, View, Tools, Help), a left sidebar with a tree view of document types, and a main content area displaying a "Consolidated Statement of Earnings".

The report compares data for two companies: General Electric Company (Identifier: 000040545) and Lockheed Martin Corp (Identifier: 0000306468). It shows consolidated data for three periods: 2009-07-01 to 2009-09-30, 2009-01-01 to 2009-09-30, and 2009-01-01 to 2009-09-27.

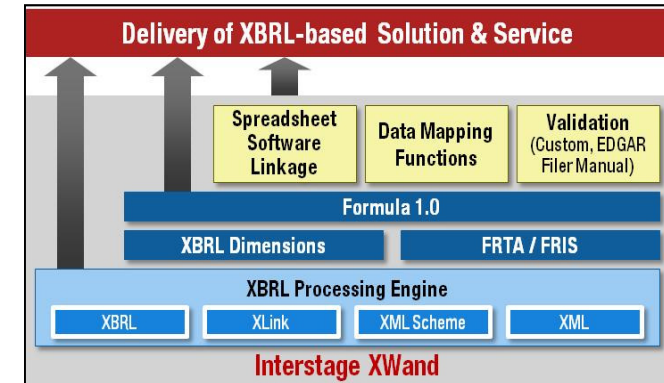
	2009-07-01 - 2009-09-30	2009-01-01 - 2009-09-30	2009-01-01 - 2009-09-27
Sales of goods	14,527,000,000	44,605,000,000	8,837,000,000
Sales of services	10,516,000,000	30,743,000,000	2,219,000,000
Other income	438,000,000	900,000,000	5,330,000,000
Costs and expenses	11,775,000,000	35,658,000,000	23,457,000,000
Cost of goods sold	6,773,000,000	19,760,000,000	5,693,000,000
Cost of services sold	9,354,000,000	27,624,000,000	17,764,000,000
Other costs and expenses	35,824,000,000	107,622,000,000	7,723,000,000
Earnings (loss) from continuing operations	1,975,000,000	7,723,000,000	275,000,000
Benefit (provision) for income taxes	-484,000,000	-566,000,000	-
Earnings from continuing operations	2,459,000,000	8,289,000,000	907,000,000

XWand Application Developer Introduction

XBRL Processing Engine



- Support for latest XBRL 2.1 specification
 - Formula, XBRL Dimensions, etc
 - XBRL-GL
 - Customizable reports
- Supported taxonomies
 - Solvency II, IFRS, US-GAAP, COREP/FINREP, GRI, xEBR, etc.
- Guaranteed conformance to the XBRL standard and best practices
 - XBRL 2.1 Conformance suite
 - Dimensions 1.0 Conformance suite
 - Formula 1.0 Conformance suite
 - Best Practices
 - Financial Reporting Taxonomy Architecture 1.0
 - Financial Reporting Instance Standards 1.0
- Support for XBRL 2.0 specification



XBRL Validation engines



- Standard validation
 - XBRL 2.1 specification
 - XBRL Dimensions specification
 - Best practices: FRTA and FRIS
- Regulator specified rules
 - SEC specified EDGAR Filer Manual
 - HMRC specified Inline XBRL Style Guide
- Validation for user specific business rules
 - XBRL Formula specification
 - Interstage XWand Query interface

Batch mode validation!!!

XWand Application Developer

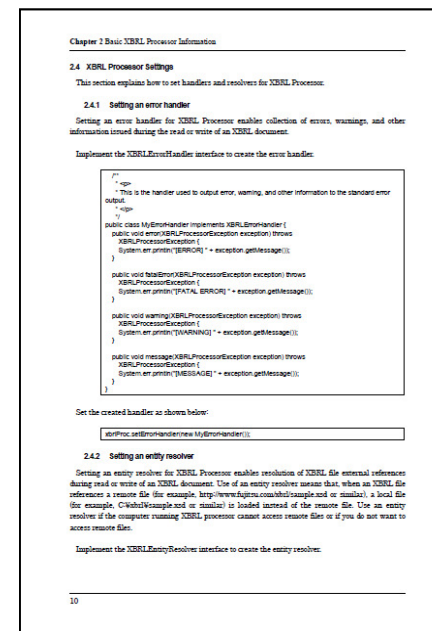
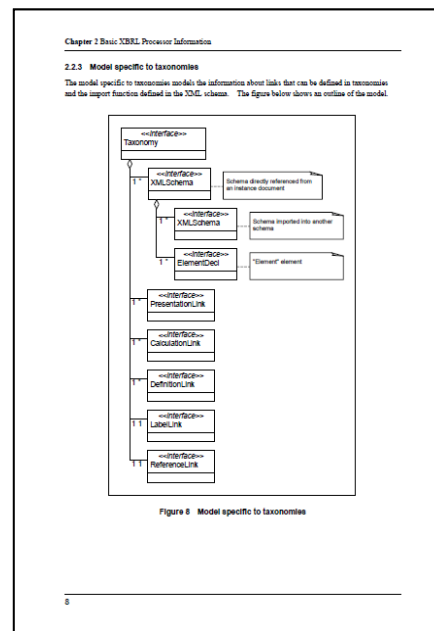
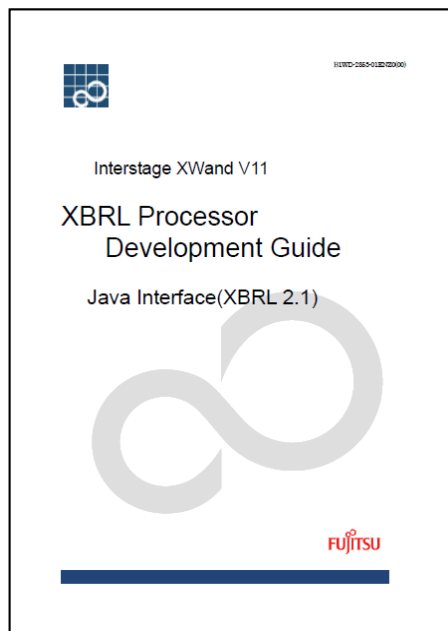


- Toolkit for building XBRL applications
- High level of abstraction of XBRL documents
- Integrated processing of instances and taxonomies
 - Creating, editing, converting and validating
- Supported platforms
 - Java (J2SDK 1.4.2 or later)
 - .NET (1.1, 2.0 or later)
- Core components
 - XBRL Processor (XBRL 2.0, XBRL 2.1)
 - Dimension Processor (XBRL Dimensions 1.0)
 - Formula Processor (XBRL Formula 1.0)
- Foundation of Interstage XWand tools

XWand API Documentation

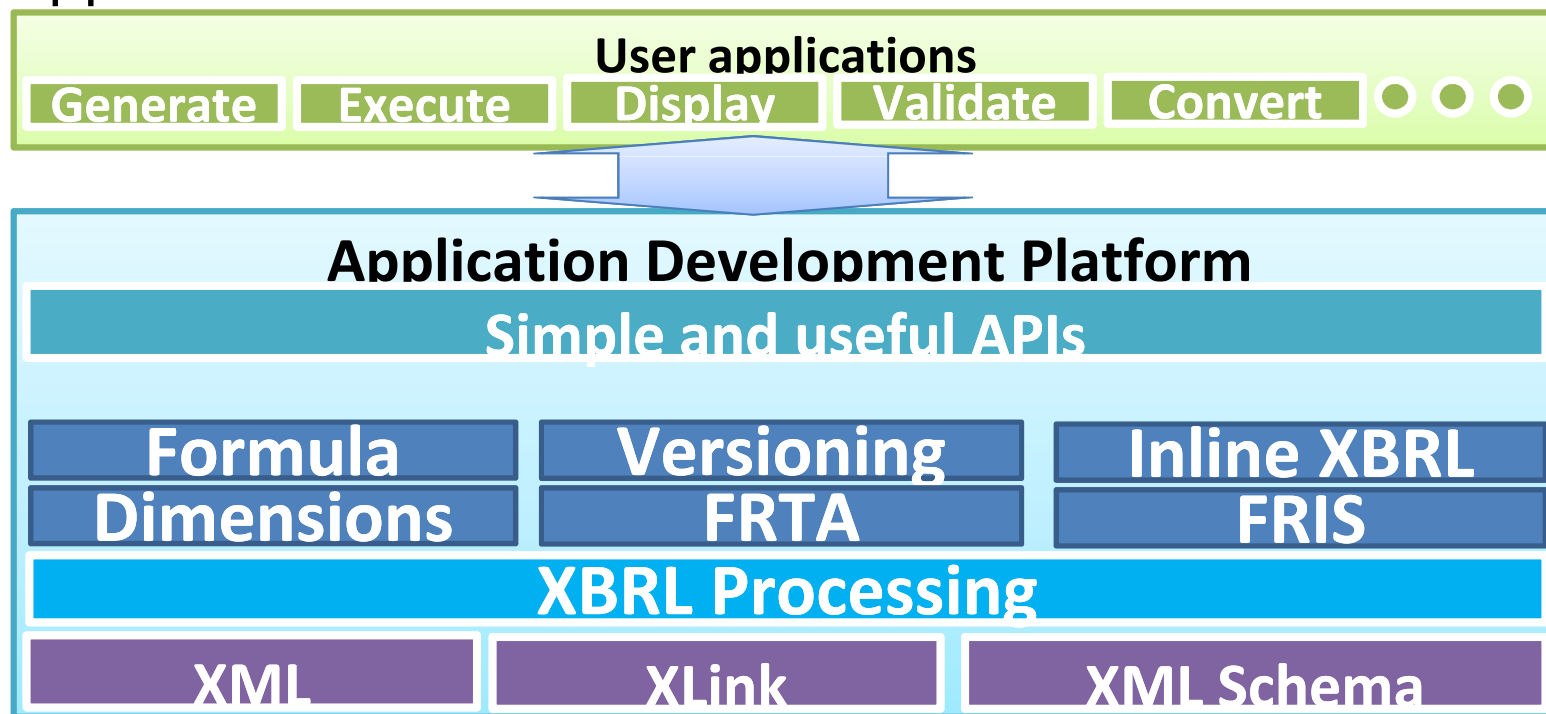


- Detailed API specification
- Programming guidelines, samples and code snippets provided together with the development set
- Local support of excellence centers



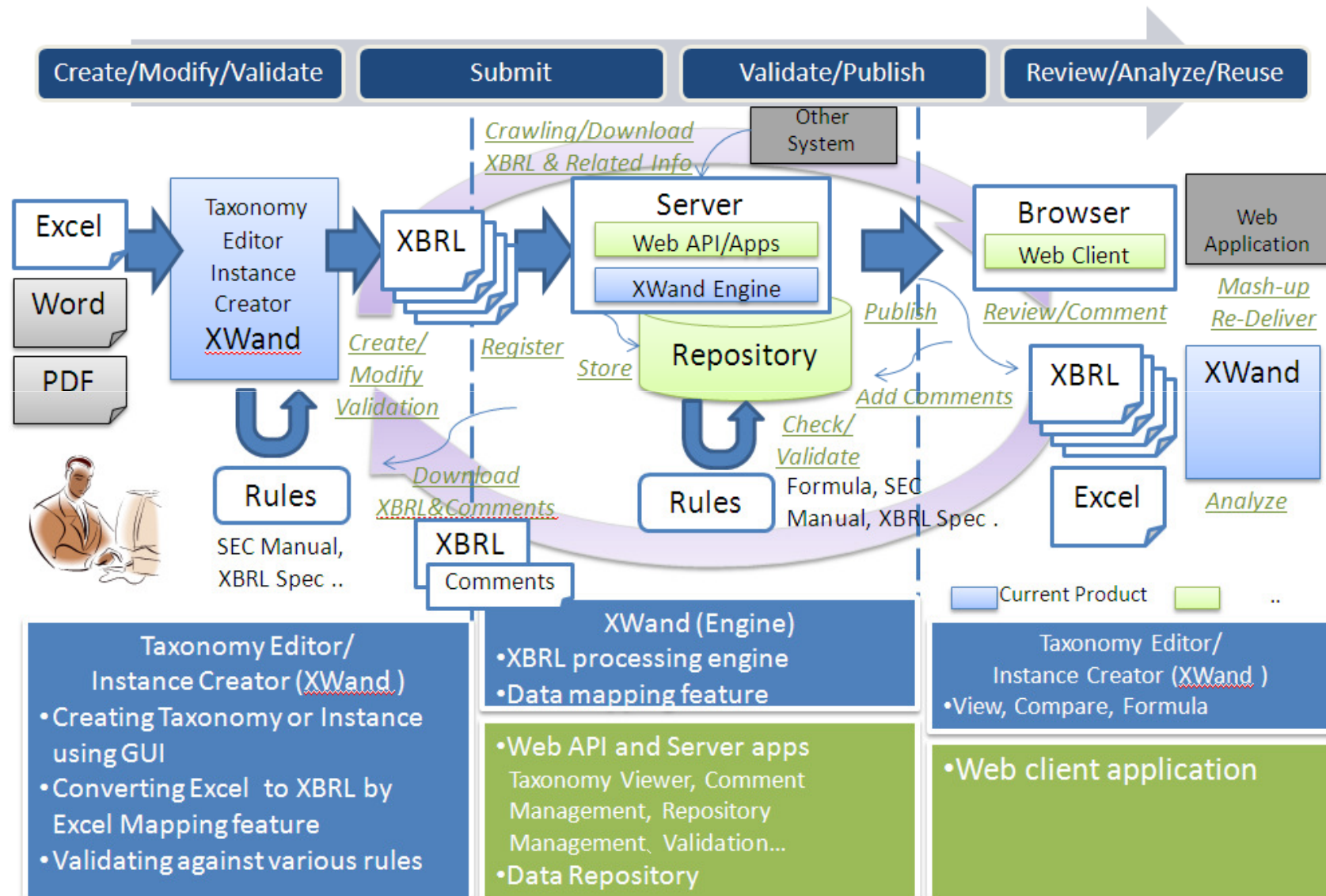
Complete API set with latest specifications **FUJITSU**

- Provides APIs for creating, validation and executing the latest specifications
- XWand APIs allow user to develop any type of XBRL application



Custom solutions

XBRL Data Flow Image



New features in Interstage XWand V12



■ Latest specification support

- Formula Extensions, Versioning, Inline XBRL

■ Enhanced Validation functionalities

- First commercial implementation of the latest updates to the Formula specification
- Supports regulator-specific rules, such as EDGAR Filer Manual and HMRC style guide. Also supports Taxonomy and Inline XBRL validation against regulator-specific rules, which standard specifications do not cover

■ The newly released Versioning specification support

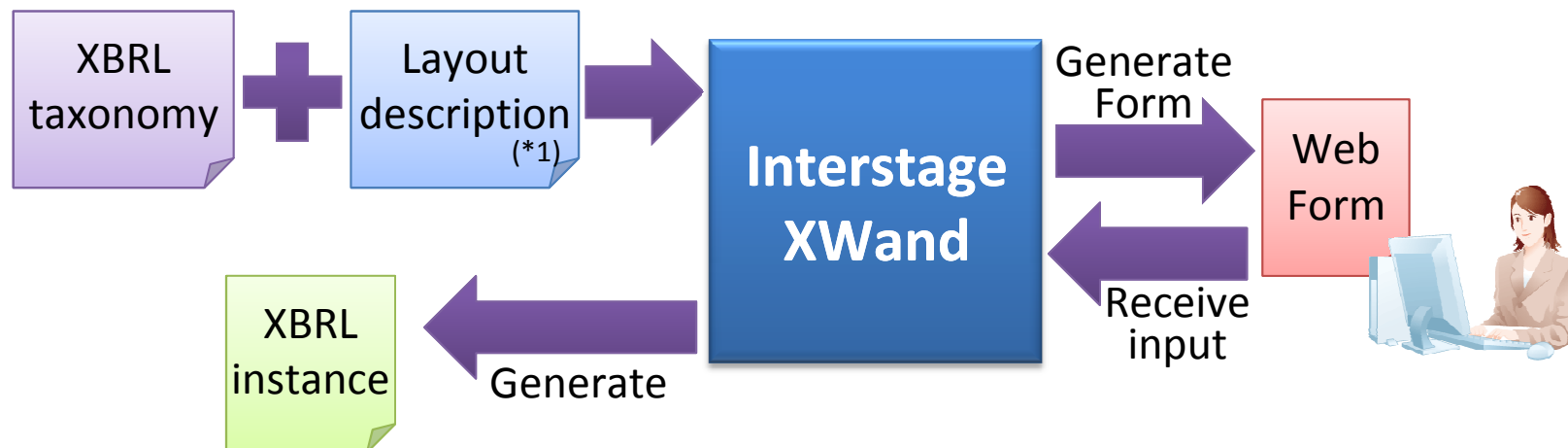
- Supports automatic synchronization of instances to taxonomy updates, using Fujitsu's implementation of the newly adopted Versioning specification. It enables users to reuse older financial reports.

■ Easy and efficient generation of Web Forms in XBRL submission / collection systems

- Web Forms can be generated directly from taxonomies - changes in the latter no longer require hours and lots of code changes to update the forms used in the corresponding web applications

■ Easy and efficient generation of Web Forms directly from taxonomies

- Web Form is generated automatically from taxonomy, by layout description language
- Changes in taxonomies no longer require hours and lots of code changes to update the forms used in the corresponding web applications



*1: Rendering Linkbase specification is used as the layout description

Summary

Interstage XWand Products



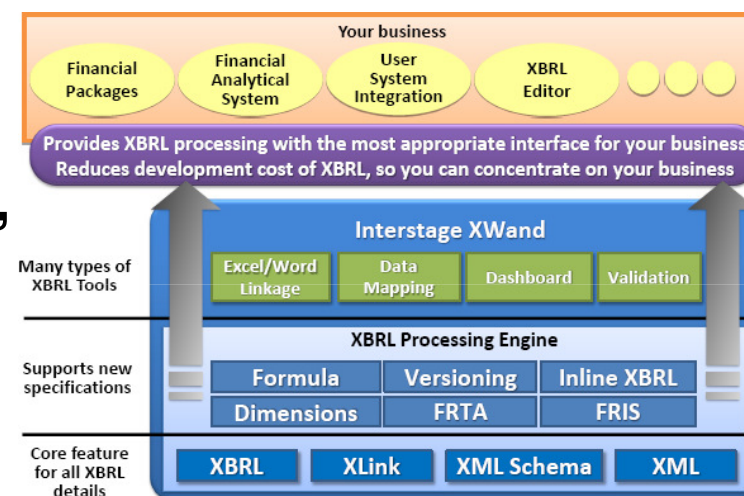
Interstage XWand



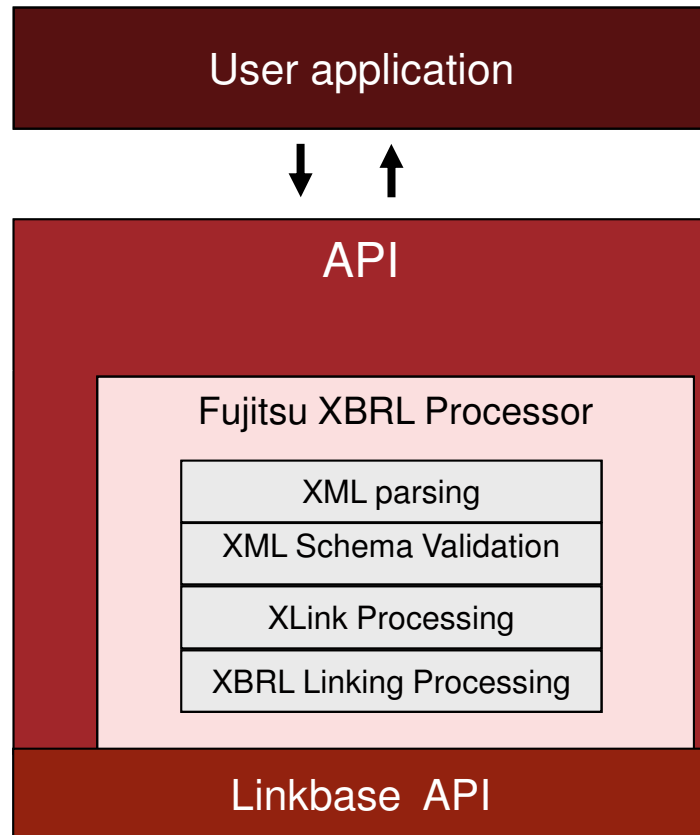
Interstage XWand Summary



- **Comprehensive set of functionalities for full flexibility** while introducing XBRL into new/existing business processes
- **Supporting latest XBRL technologies, including business rules and validations** – implementing the formula linkbase
- **Trustworthy, proven solution: over 100 customers in 30 countries worldwide**



Accelerate Time-to-Value of Your Application



- **Superior Products**
- **Modular Architecture**
- **Extensive Integration Capabilities**
- **Easily re-brandable Software**
- **Extensive Resources**
- **Leverage our significant investment in development**

“The Interstage XWand system gave us what we needed, out of the box.”

Dave Tomlinson, Director of Marketing at Trintech

Case Studies

Financial Services Agency – Japan

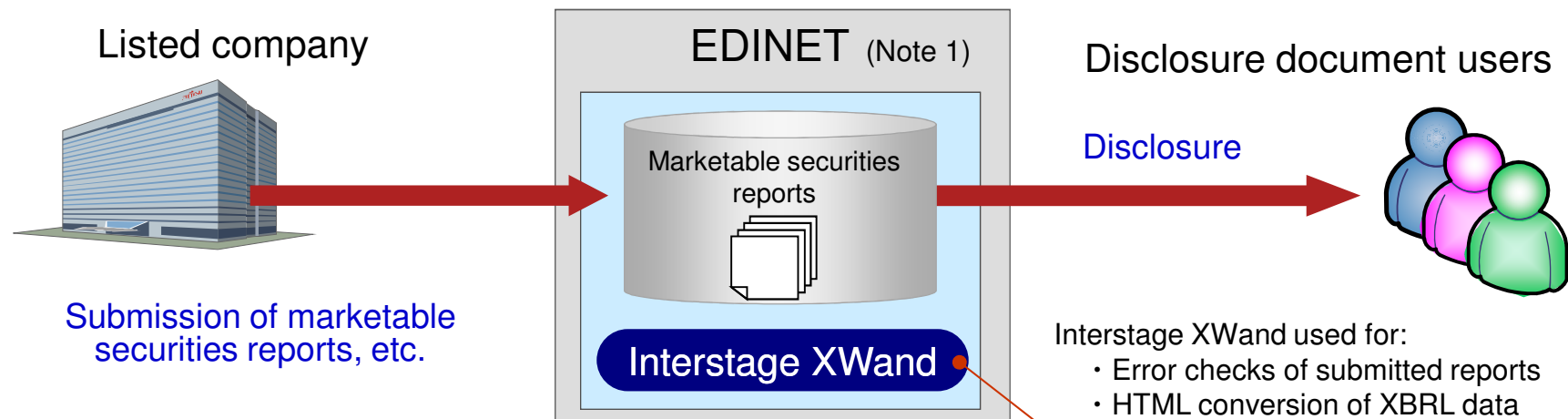


Changing the “EDINET” electronic disclosure system to an XBRL-based system enabling more efficient submission of disclosure documents such as marketable securities reports required by the Financial Instruments and Exchange Law.

■ Aims of the Financial Services Agency in adopting XBRL

- Using XBRL to increase the secondary usability of disclosure information and improve usability for users of documents such as disclosure documents, and to provide a system environment that can be widely and easily used by members of the community
- Enrichment of inspection assistance functions in order to enhance inspection of documents such as disclosure documents

Extract from “Business and system optimization plan for business related to documents such as marketable securities reports” reported by the Financial Services Agency



Note 1: EDINET (Electronic Disclosure for Investor's NETwork): Electronic disclosure system for disclosure documents such as marketable securities reports

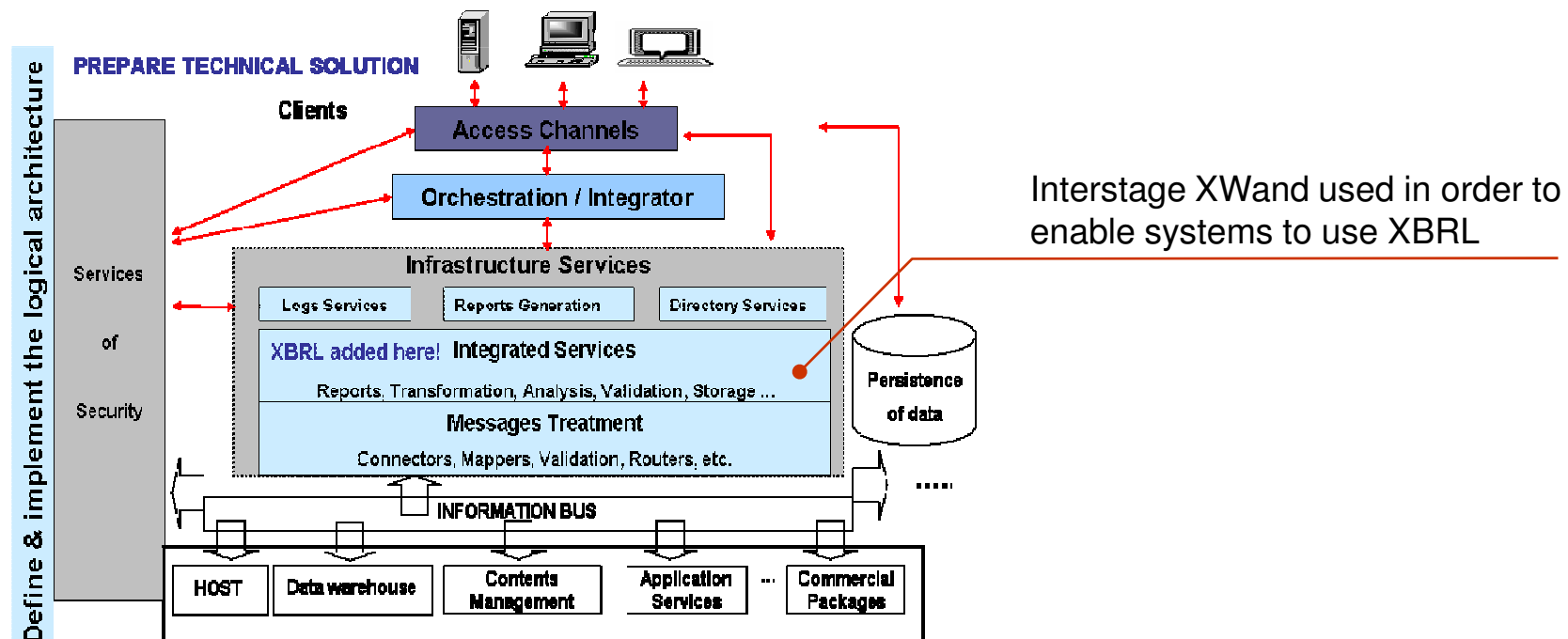
Central Bank of Spain



Financial supervision report collection

■ Aims of Spain's central bank in adopting XBRL

- Using XBRL as a standard report format in order to guarantee transparency of financial information
- Encouraging all organizations in the financial and accounting supply chain to use XBRL



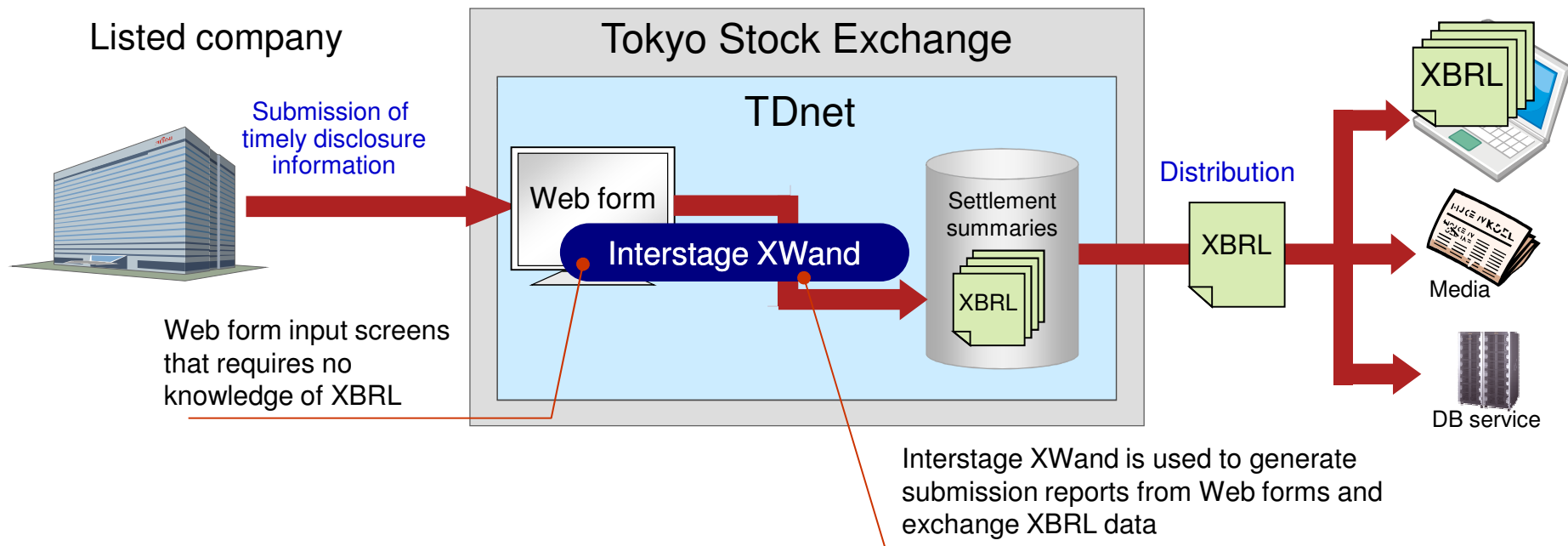
Tokyo Stock Exchange



Changing the disclosure information transmission system to XBRL

■ Aims of the Tokyo Stock Exchange in adopting XBRL

- Improving market functionality and enhancing investor convenience by providing an environment in which investors can use settlement information easily



*1: TDnet: Timely Disclosure network

The electronic disclosure system managed by the Tokyo Stock Exchange for the timely disclosure of information by listed companies

For more information please contact



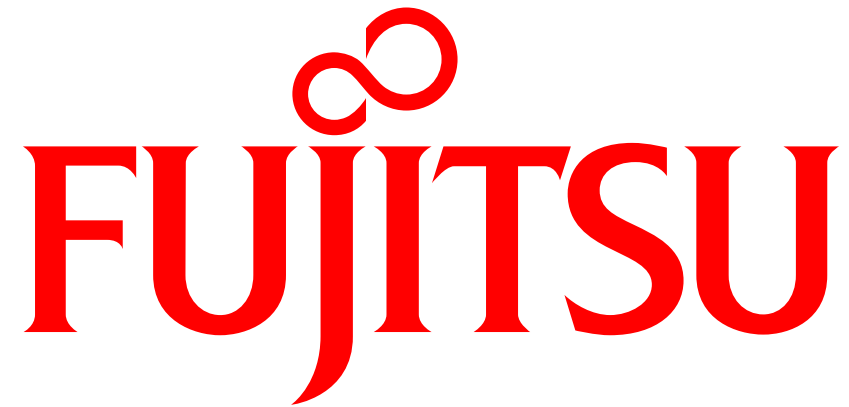
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shaping tomorrow with you