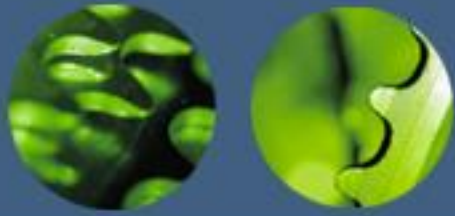




VISUAL Integration

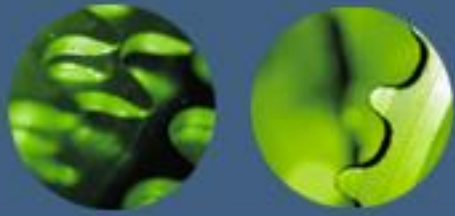
Customized Solution
for Trussbilt





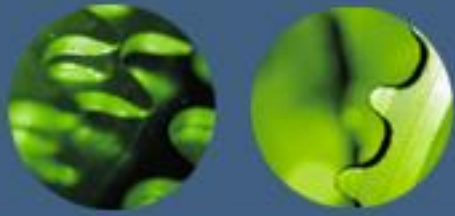
Virant Methodology and Integration Strategy

- Assessment
- Design
- Development
- Deployment
- Ongoing Assessment and Support



Virant Methodology and Integration Strategy

- Assessment
 - Information centric
 - More of a people problem than a technical one
 - Approach from two perspectives
 - Top-down (business perspective)
 - Bottom-up (technical perspective)

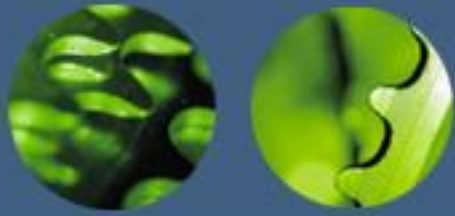


Virant Methodology and Integration Strategy

- Design
 - Find the best level of integration
 - Not all solutions will require total rewrites
 - Define common **semantics**

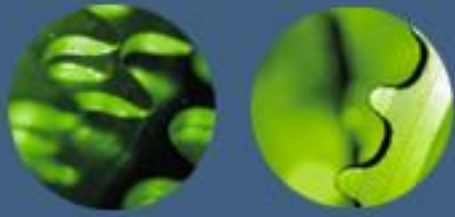
“A camel is a horse
designed by a committee”





Virant Methodology and Integration Strategy

- Development
 - Embrace the reality that no one technology will suffice
 - Use non-proprietary or open source code
 - Use proven or “best-of-breeds” code and tools
- Deployment
 - Non-intrusive
- Ongoing Assessment and Support
 - Self-sufficient



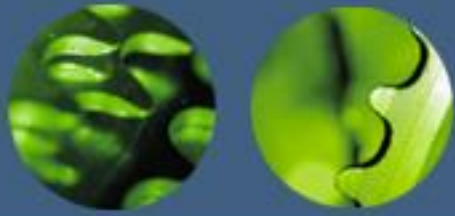
Integration Challenges

- Structural
 - Differences in technology
 - Behavioral
 - Differences in information
 - Organizational
 - Many diverse organizations
- and...**
- Industry Hype



but...

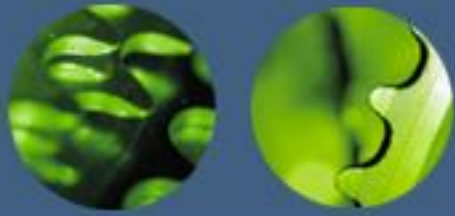
It all comes down to **semantics!**



Semantics

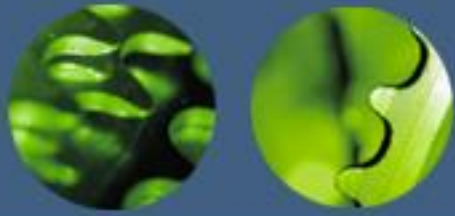
- I
- k
- F
- relying on an independent body of knowledge
- Applications cannot resolve ambiguities... information must be interpreted and clarified up front





Semantic Disparities

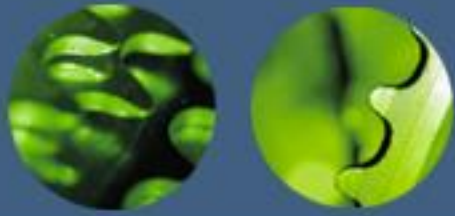
- Different terms for the same concept
- Term has conflicting meanings
- Scheme differences
- Different units of measure
- Differences in aggregation or scope
- Object state within life cycle
- Relative vs. absolute measurements
- Date and time format



V-Semantics Transformation

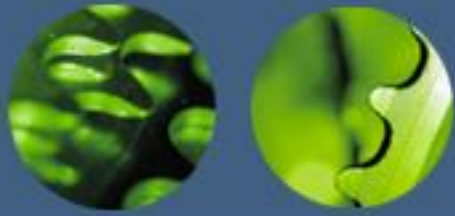
- Structured tool to manage semantics throughout the project life-cycle
- Central repository
- Natural language, graphical, programmatic
- Key words and phrases are captured
- The TrussBilt definition becomes the Reference Model
- Alternate definitions are determined for each integration
- Clarity the semantic differences between each context
- These differences become the *actual transformation logic*
- All semantic meta-data is make available throughout the organization

**You cannot see
Application Integration
- it does not have a
user interface - but
you will notice the
effects of it.**

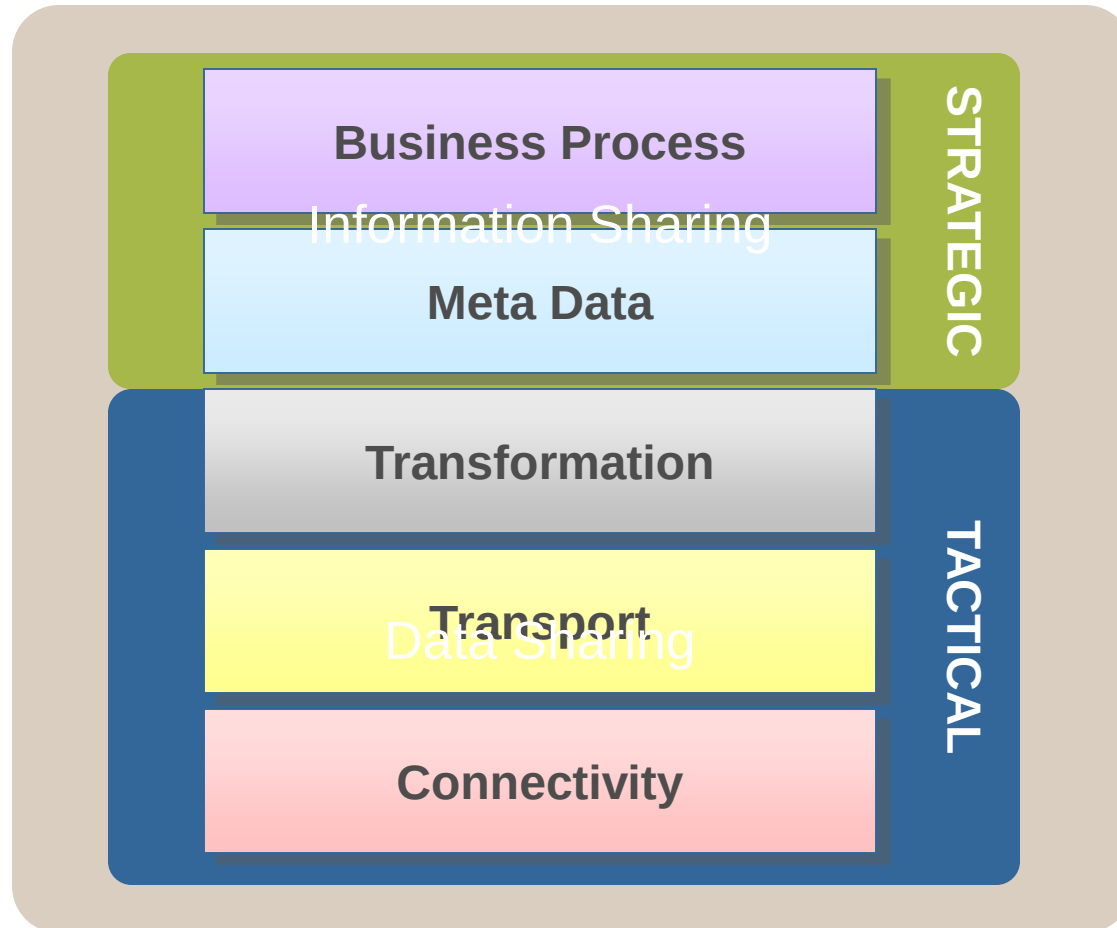


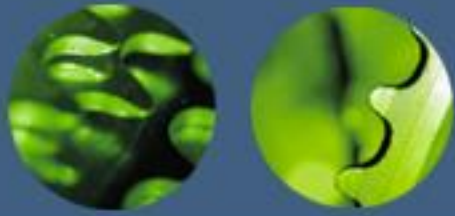
Integration Strategies

- Application integration
- Web services
- Ad-hoc integration
- Middleware
- Distributed applications
- ERP !



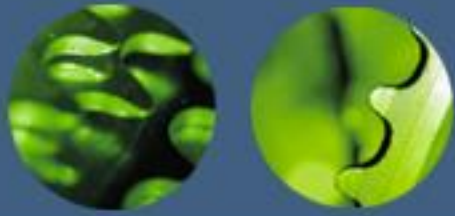
Application Integration Layers





Mechanics of Application Integration

- Playing Field
 - Database
 - Application
- Linkage
 - Method based
 - Message based
- Flow
 - Synchronous
 - Asynchronous
- Coupling
 - Tightly coupled
 - Loosely coupled
- Granularity
 - Fine
 - Course



Integration Options for VISUAL Enterprise

- Direct database manipulation
(Native, ODBC, OLE DB, ADO)
- Component Object Model (COM)
- Triggers and Stored Procedures
- Macros (VB Script)
- VISUAL Exchange
- VISUAL Messages
- Synchronizer
- Import / Export

Integration Architecture

INFOR

MIDDLEWARE

TRUSSBILT

VISUAL ENTERPRISE

VISUAL
DB

VISUAL
EXCHANGE

TEAMS

TEAMS
DB

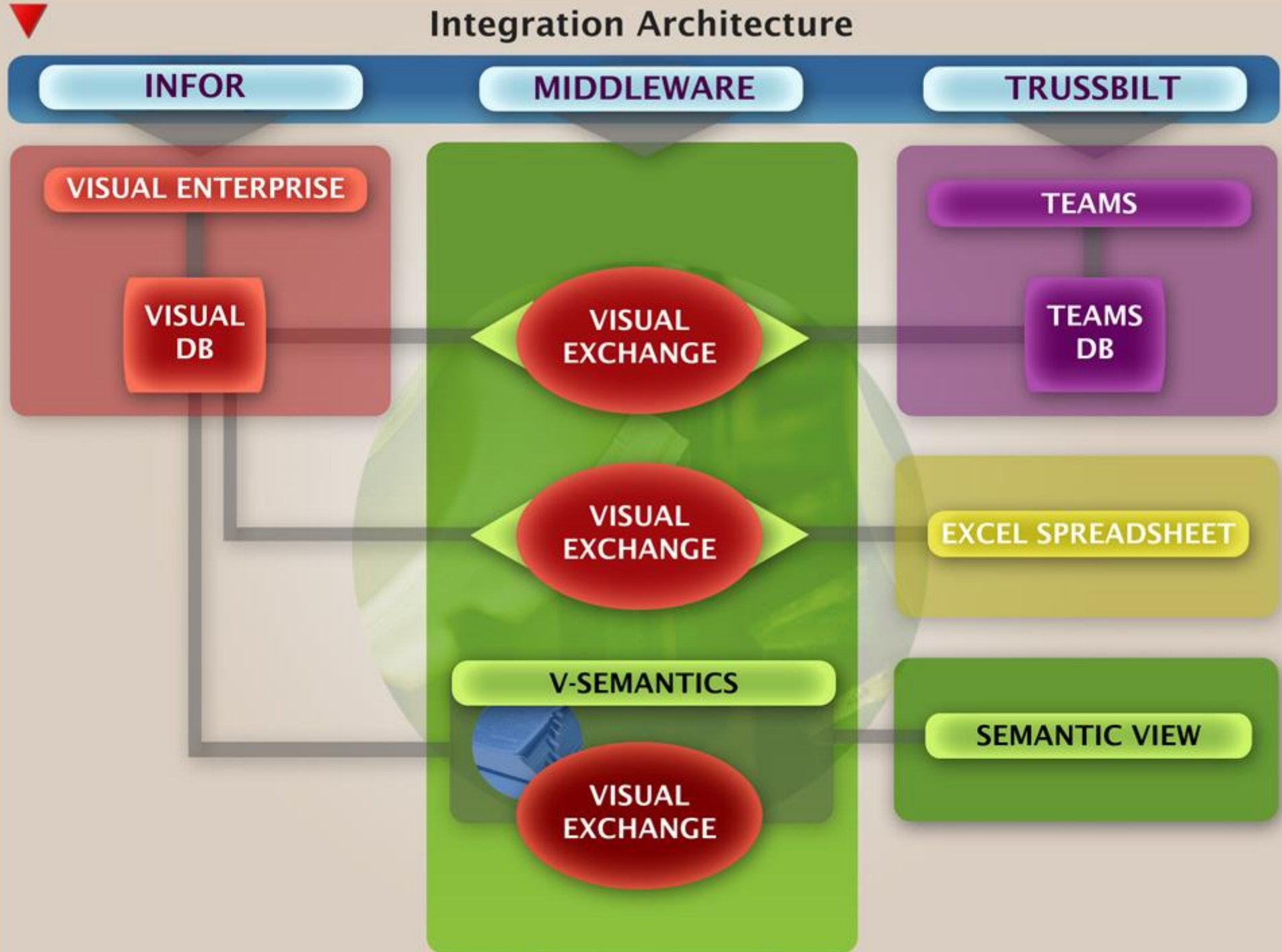
VISUAL
EXCHANGE

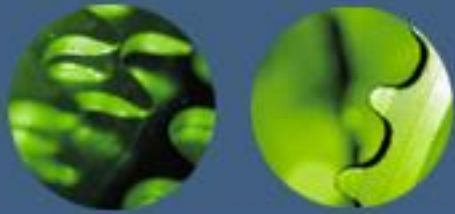
EXCEL SPREADSHEET

V-SEMANTICS

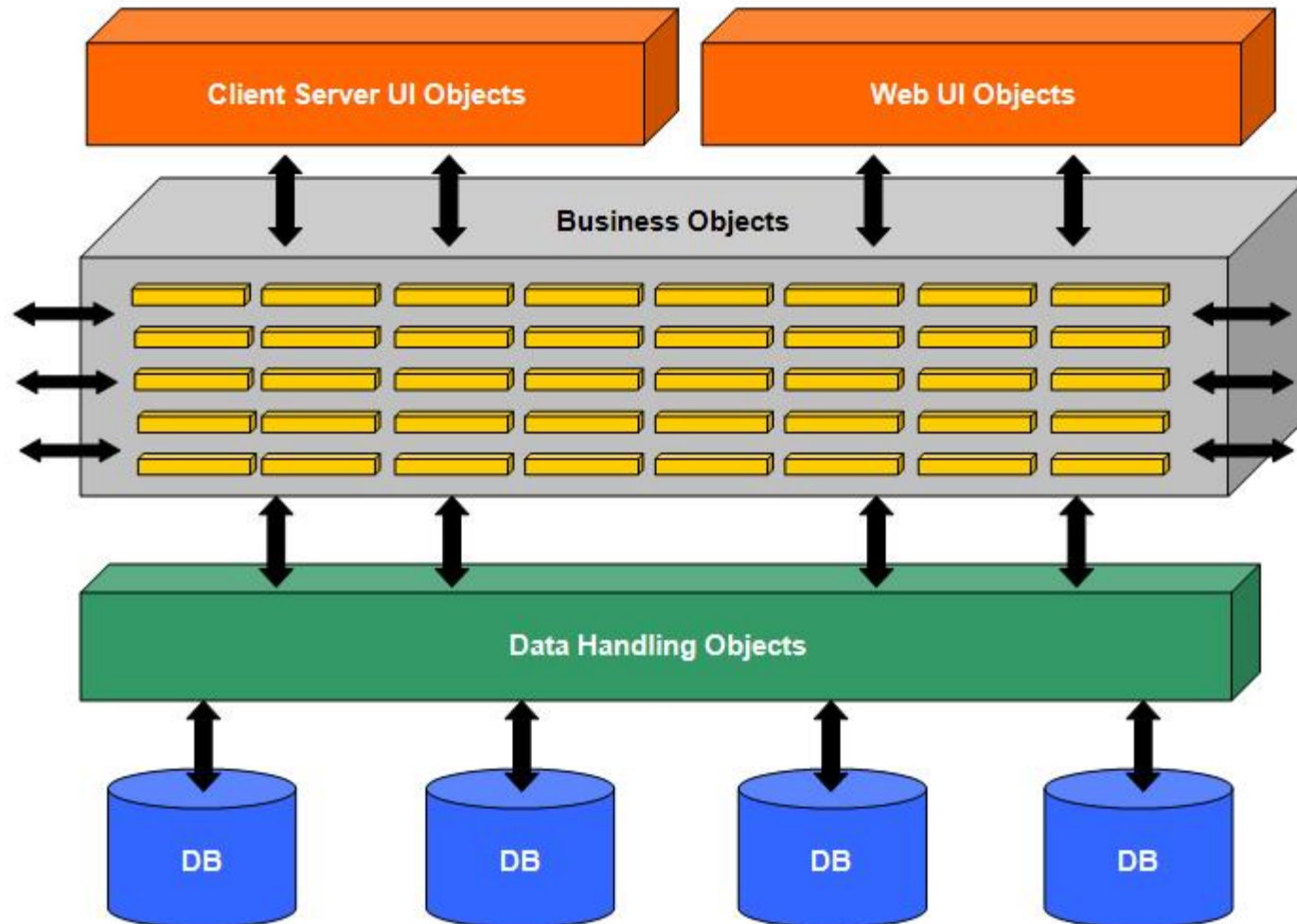
VISUAL
EXCHANGE

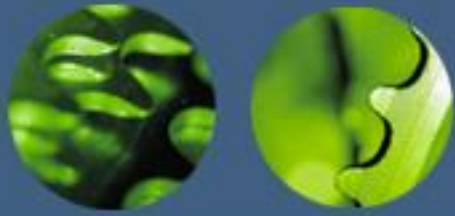
SEMANTIC VIEW



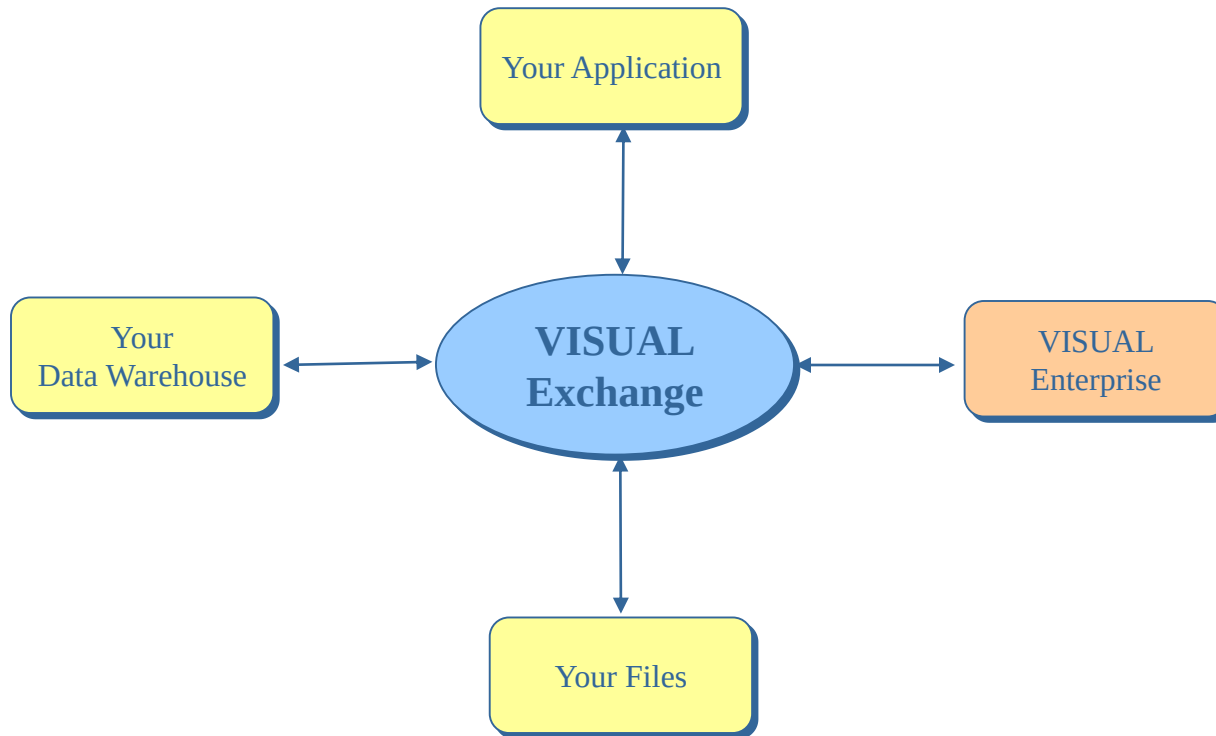


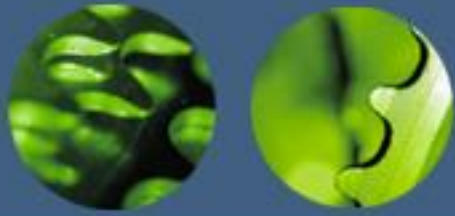
VISUAL Enterprise Architecture



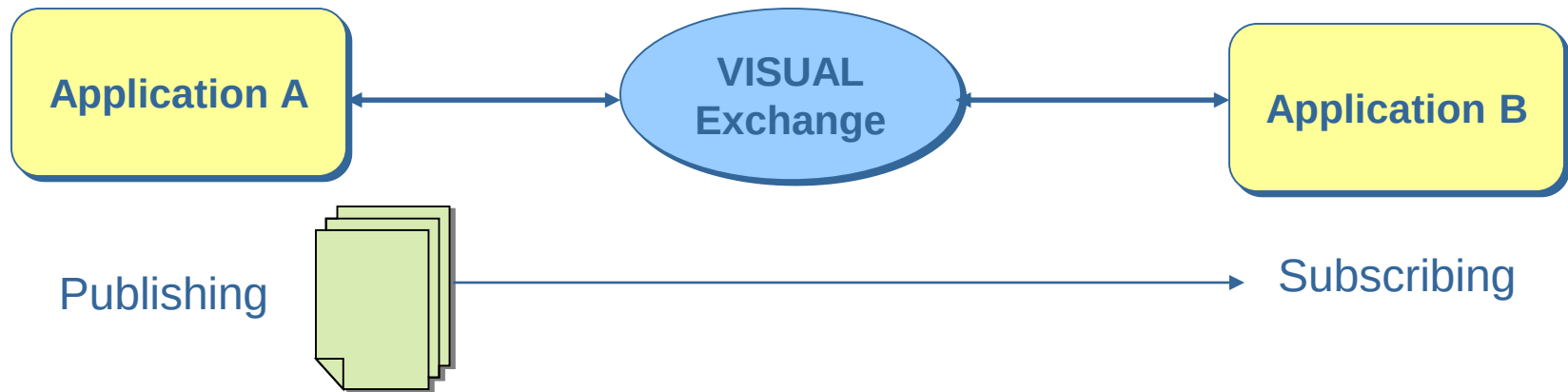


VISUAL Exchange

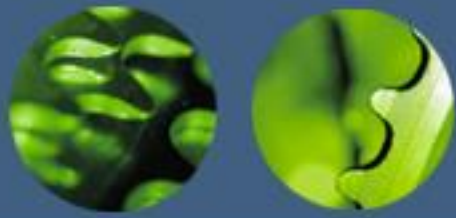




VISUAL Exchange



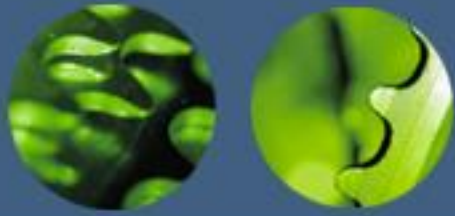
Subscription / Transformation Model



TEAMS Integration Architecture



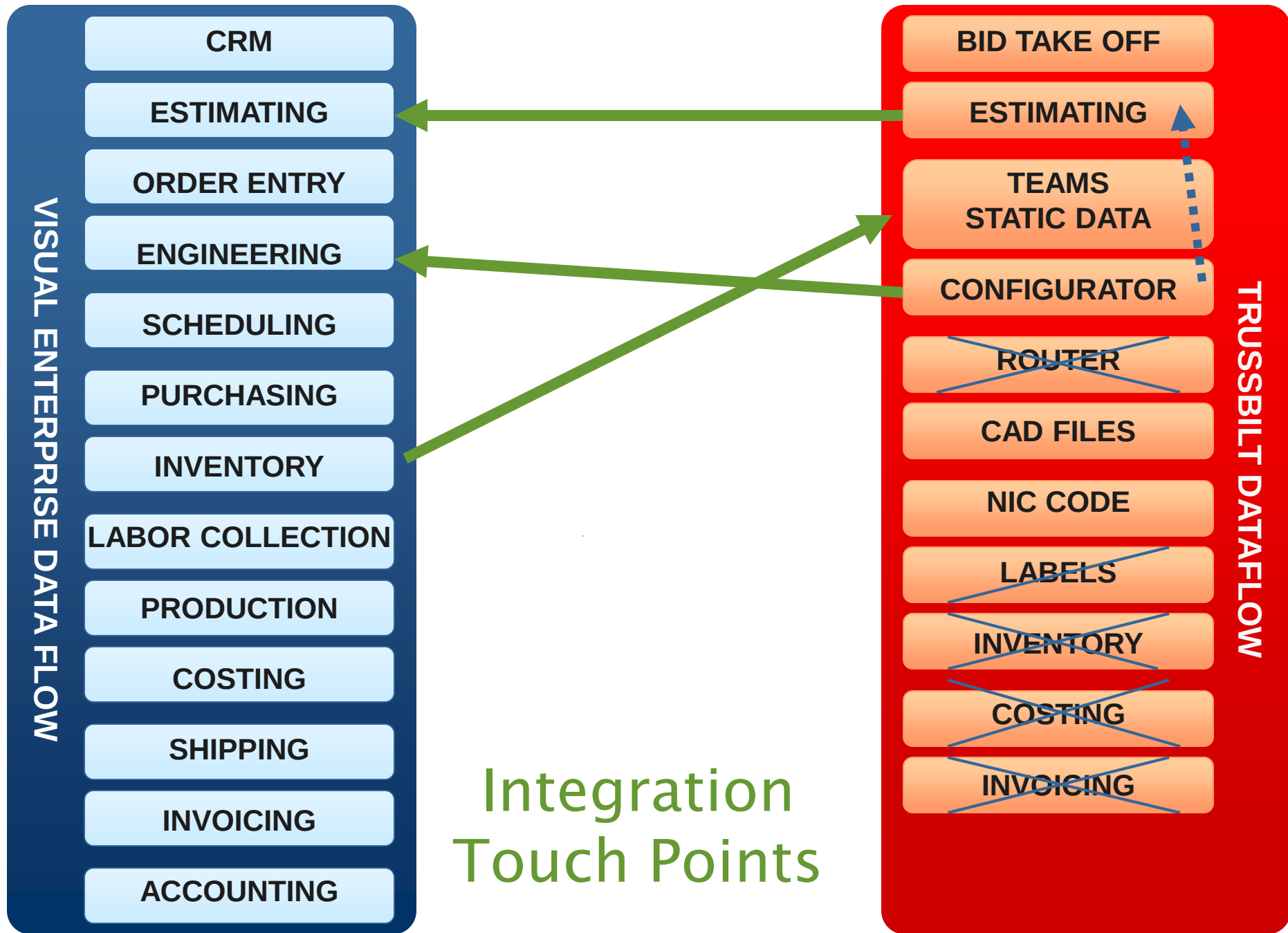
- Custom Exchange connector: TEAMS_Document
- Static data shared via scheduled Exchange
- Dynamic data shared real time via Exchange
- Low impact triggers notify Exchange of a change



Excel Integration Architecture



- Option A
 - VB Script activated by a button in Excel to create an XML document
 - XML file read by Exchange
- Option B
 - Extend TEAMS to include to estimating configurator
 - Exchange creates Quote Master in VISUAL





VISUAL Integration

Customized Solution
for Trussbilt

