Riyad Bank SOA

flexible architecture & integration

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To be achieved

- What is Architecture?
- Why do we need a developed IT architecture?
- How do you build the architecture?
- How to successfully implement architecture?
- ASI built-in flexibility.
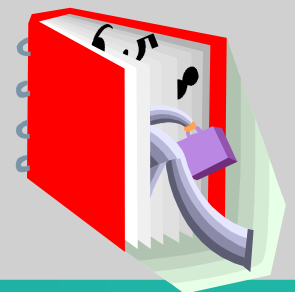- How RB enabled its core CICS system.
- Fees Cube.

What is Architecture?

- Is a <u>process</u> bridging Business & IT.
- Provide a roadmap for enterprise innovation.
- Provide the blueprints for the desired enterprise:
  - Business Architecture
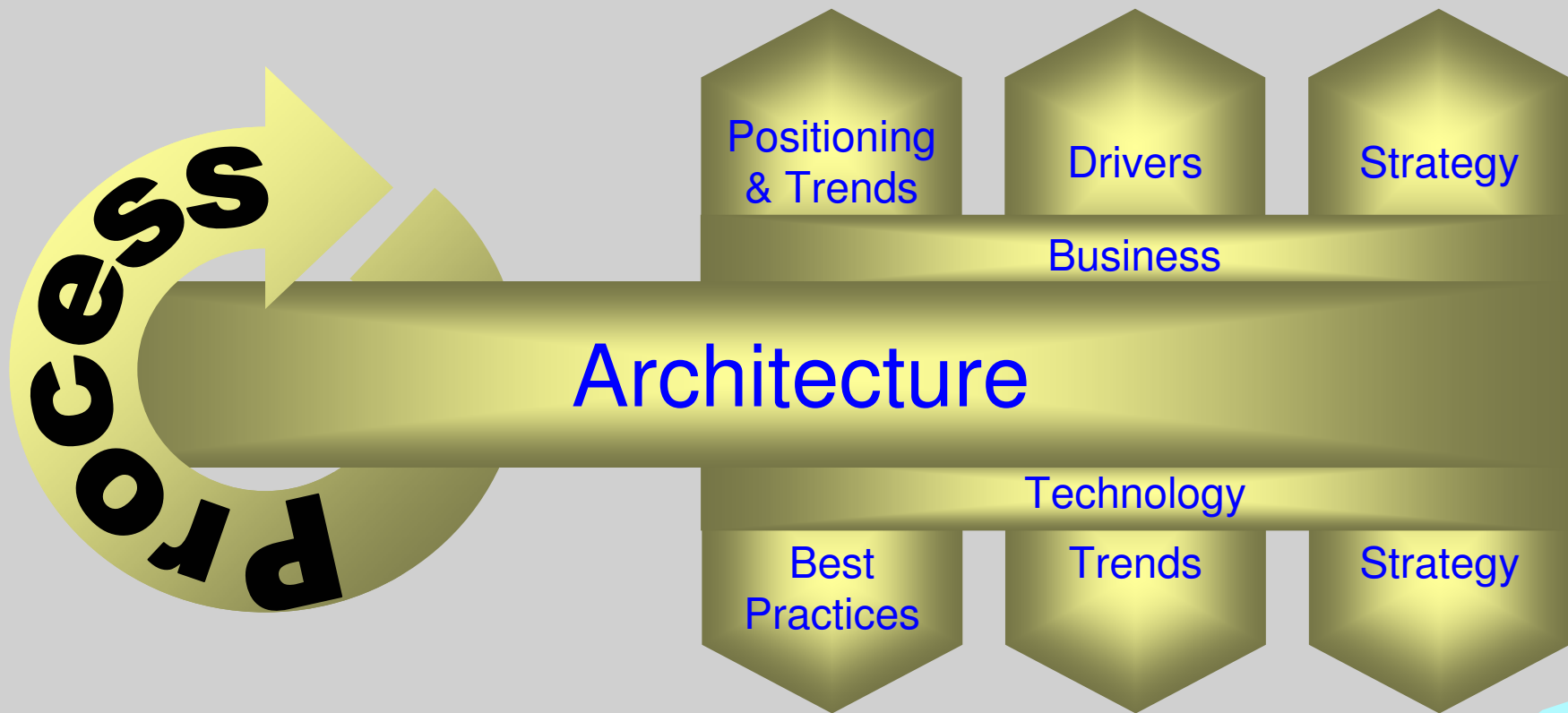 - Technology Architecture

Why do we need a developed IT architecture?
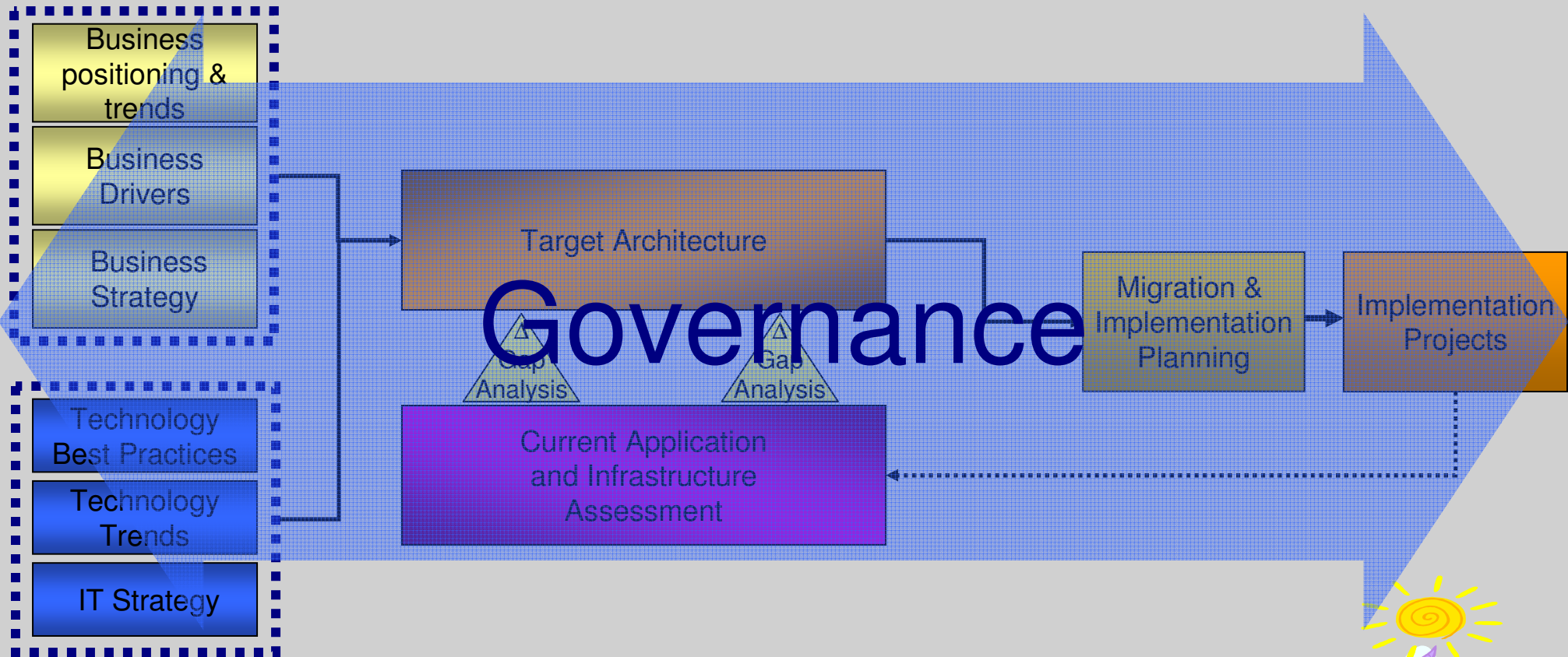
- To reduce IT Complexity.
- Create an IT adaptive environment.
- Improve overall leverage of valuable IT resources
- Assuring stable operations & infrastructure availability.
- To help the information system become a true tool of business navigation with a better risk management & control.
- To enable IT cost effectiveness and to improve the utilization of capital (Return On Asset)

How do you build the architecture?

process

Positioning & Trends

Drivers

Strategy

Business

Architecture

Technology

Best Practices

Trends

Strategy

Steps to build Architecture

Business positioning & trends

Business Drivers

Business Strategy

Technology Best Practices

Technology Trends

IT Strategy

Target Architecture

Gap Analysis

Gap Analysis

Governance

Current Application and Infrastructure Assessment

Migration & Implementation Planning

Implementation Projects

Certification Process

ASI and built-in flexibility

Customer centric application(s)

Channels Applications

ASI

Factories Applications

Enterprise Navigation and Control Applications

ASI and built-in flexibility

Presentation Logic Layer   Business Logic Layer   Data Logic Layer

ASI Middleware

Customer core
BL & DL

Example of
Factory
BL & DL

Legend:
Business Logic
Presentation Logic
Data Logic

Channels Application
servers

Customer centric, factories
and other servers
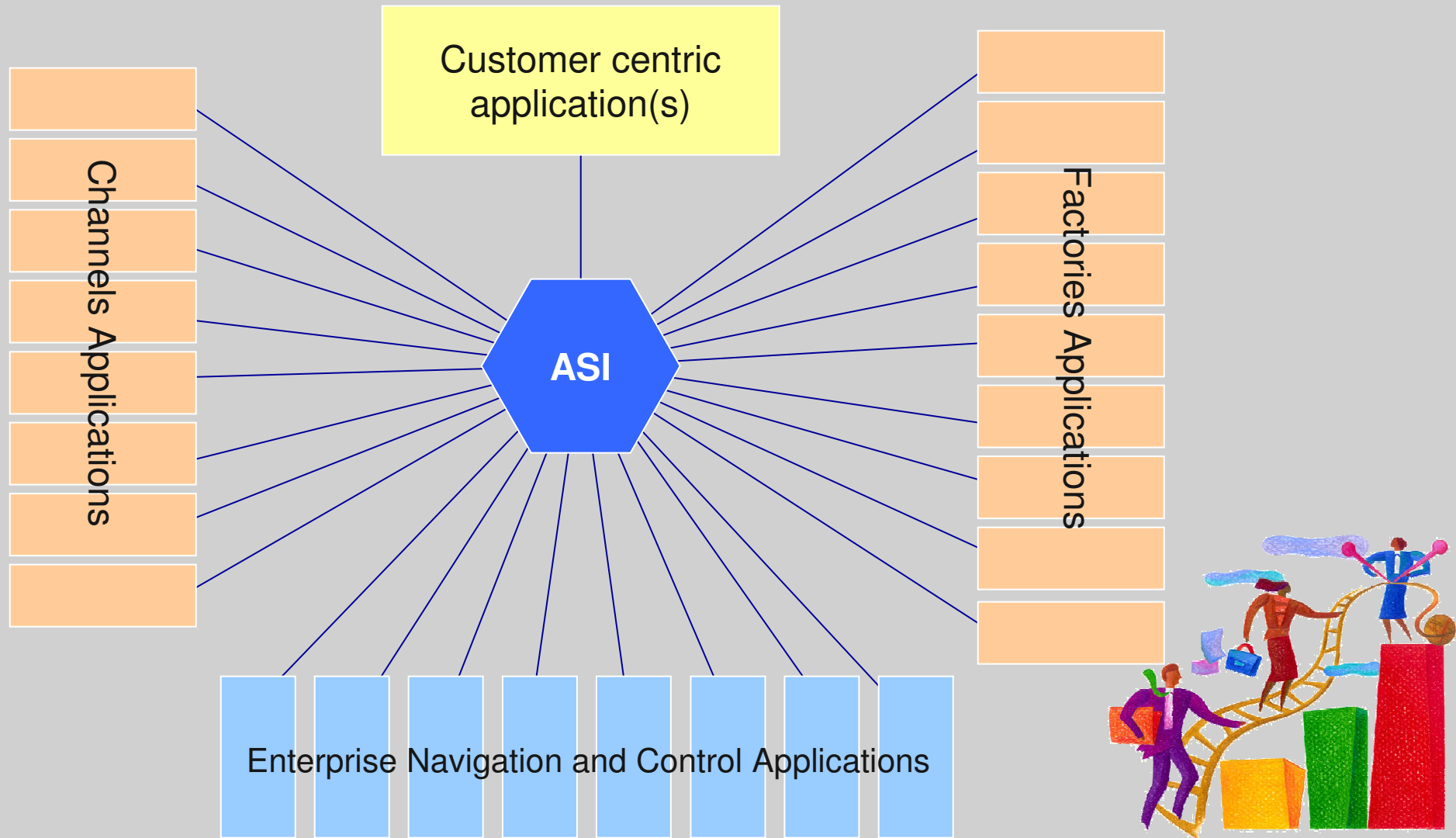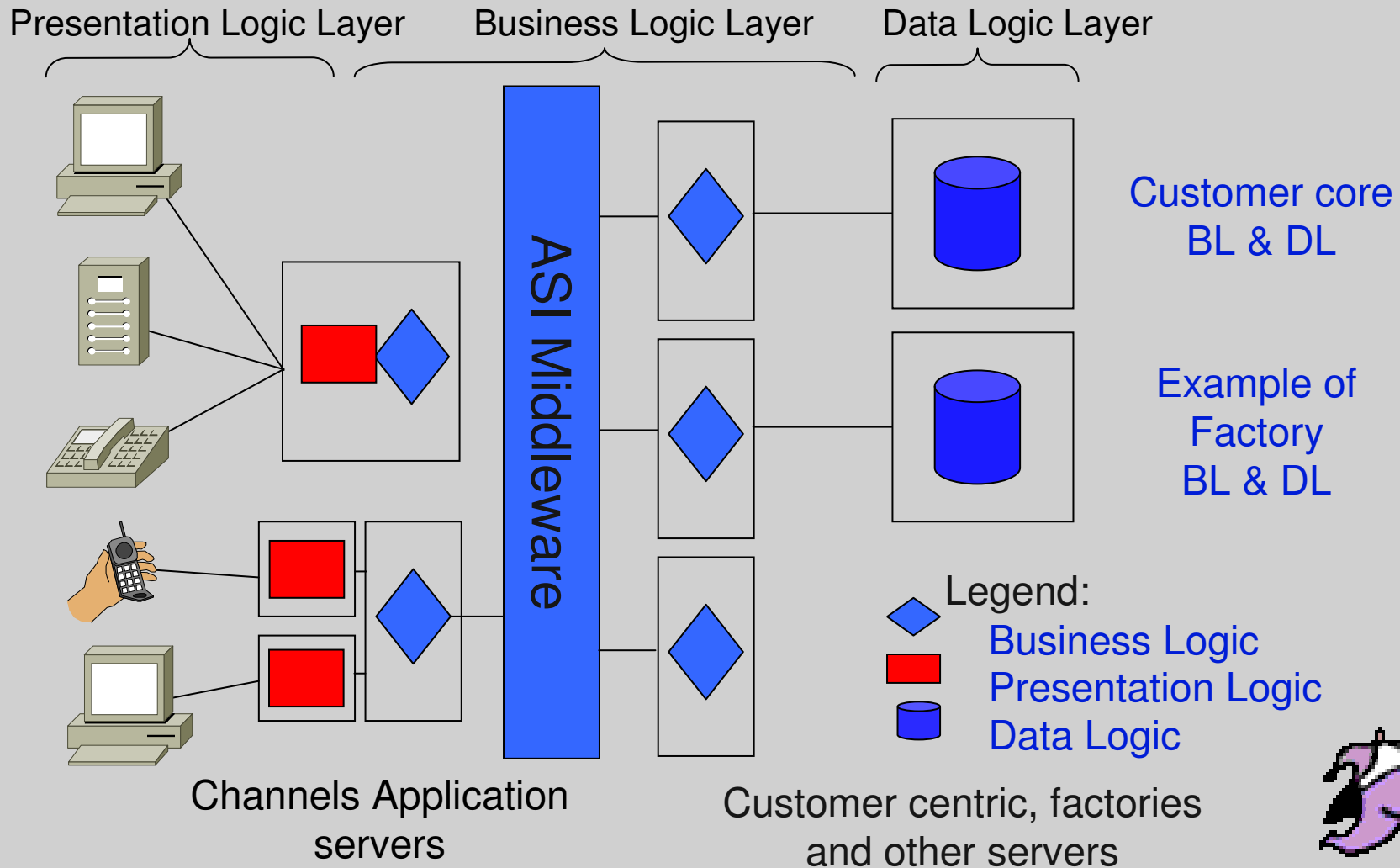
Application Domain Architecture

Channels
[Multi-channel, Multi-brand]

- RB Branches
- ATM
- Call Center
- Internet Banking
- Mobile Banking
- PDA
- Branch Other Brand
- ATM Other Brand

MW e.g. [Extract Transform Load (ETL)]

Business Process \ Workflow Model

Customer Core

Customer System
- Identification
- Demographic
- Life Style
- History
- Profitability
- Next Proposition
- Customer Links [Relations, Referrals, …]

Business Roles

MW e.g. [Message, File Transfer]

Business Intelligence – eNotifications

Application Middleware

Payment MW

Product /Service Factories

- Current Account
- Time Deposit
- Consumer Loans
- Commercial Loans
- ***
- IM/EX
- Bill Payment
- Local Shares
- Mutual Funds
- Credit Card
- International Shares

Partners

- Partner: Distributor of RB products
- STC, Govt., Elect.
- Partner: Back-Office [RB Distributor]
- Fidelity

Dynamic Multi-Channel Marketing

DWH

GL

Other Systems HR, Ext. Data …

Enterprise Navigation & Control

ETL

Data Marts

- Marketing
- Risk
- Regulator
- …

Security:
- Repository
- Policies
- User Admin.

End to End Security

How RB enabled its core CICS system

- **Legacy Core System**
  - Host: IBM Mainframe [COBOL, Assembler, VSAM, CICS]
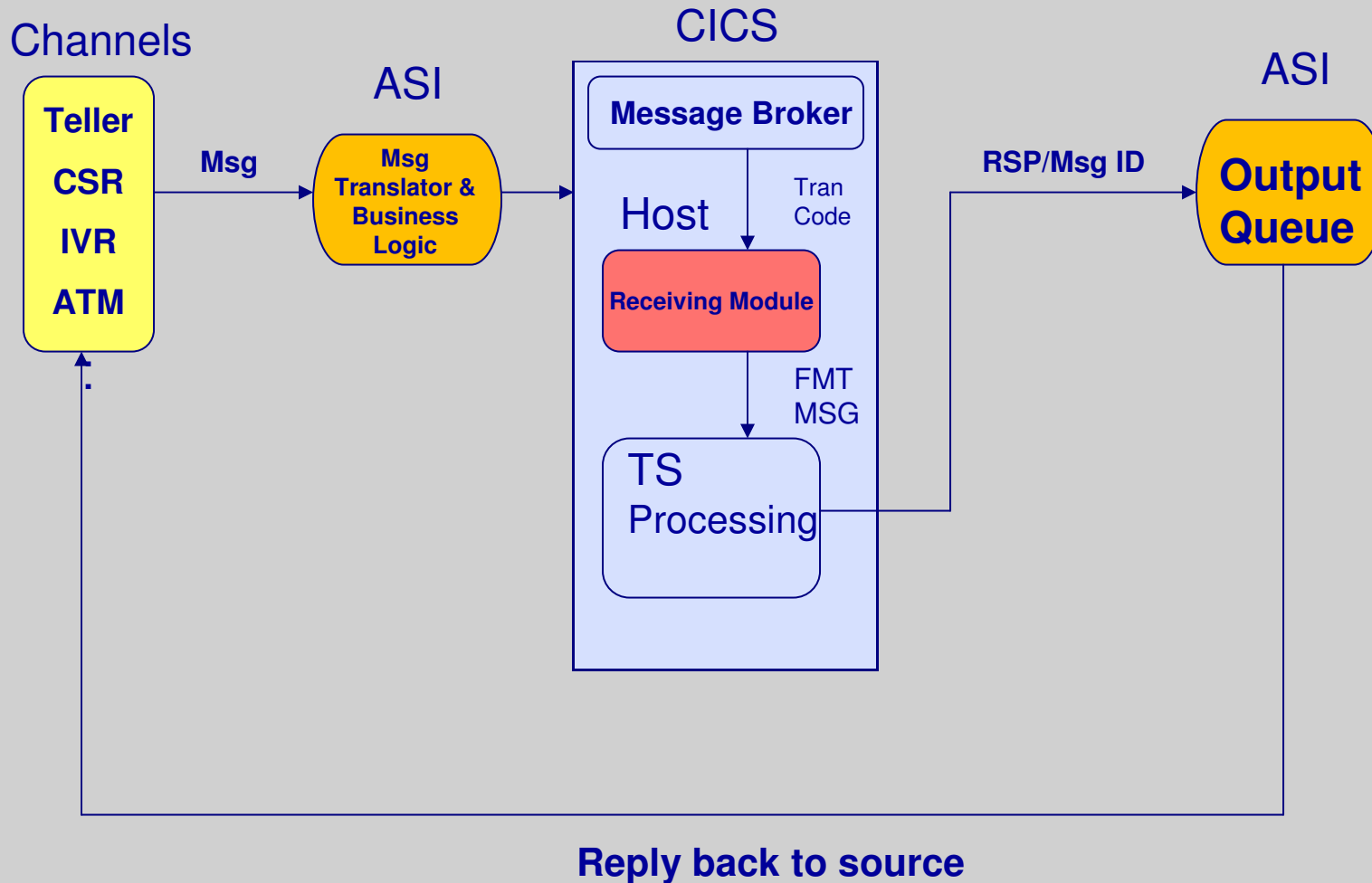
- **Supported Protocols**
  - LU 6.2 (3270 Screens)
  - LU 6.0 (SNA)

- **Drawbacks**
  - Limited Users causing deadlocks
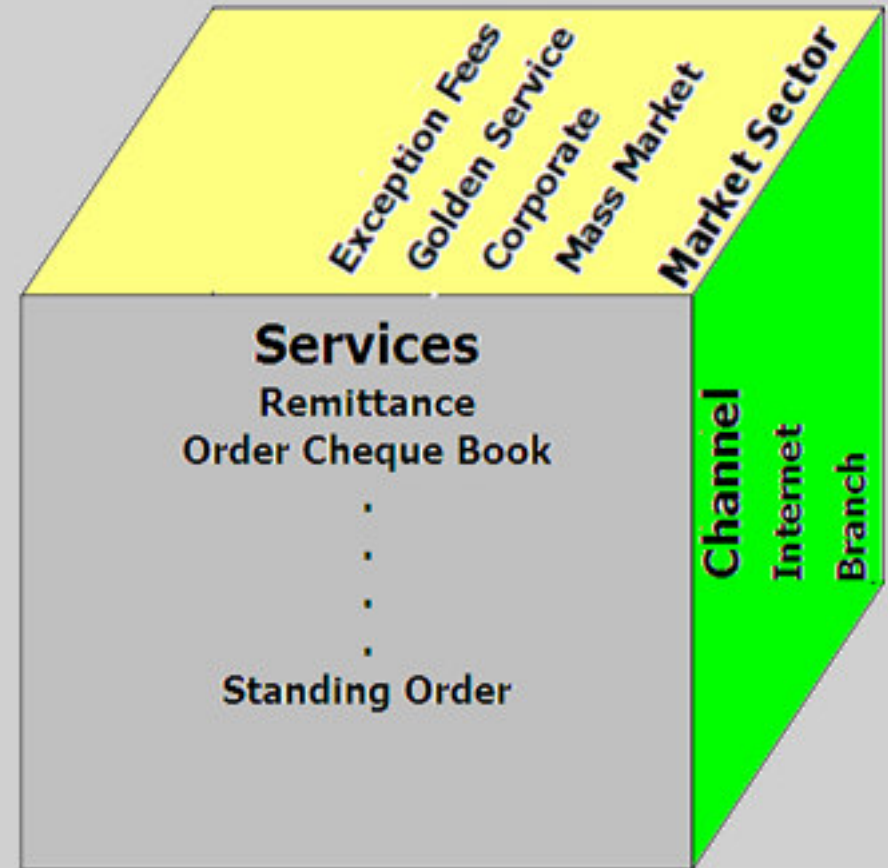 - Duplications
  - Slow Performance

Enable RB Core System ASI Interface

Channels

Teller
CSR
IVR
ATM

ASI

Msg Translator & Business Logic

Msg →

CICS

Message Broker

Host

Tran Code

Receiving Module

FMT MSG

TS Processing

RSP/Msg ID →

ASI

Output Queue

Reply back to source

Fees Cube

- Multi Dimensional.
- Centralized Fee Structure
- Discount Based.
- Exception Fees for Specific Customers.
- Define Once, Use Cross Channel.

Thank you ...