

Enterprise Standards for MMIS

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Our Goal

- Improve the health of our population by:
 - Building, retaining, and efficiently managing a quality provider network that is focused on delivering healthcare
 - Improving the delivery of information to management so better policy decisions can be made

Path

- Establish a standards-based system that enables secure access to data
- Build information services that support real-time healthcare administration
- Make the administrative procedures become a by-product of the clinical process

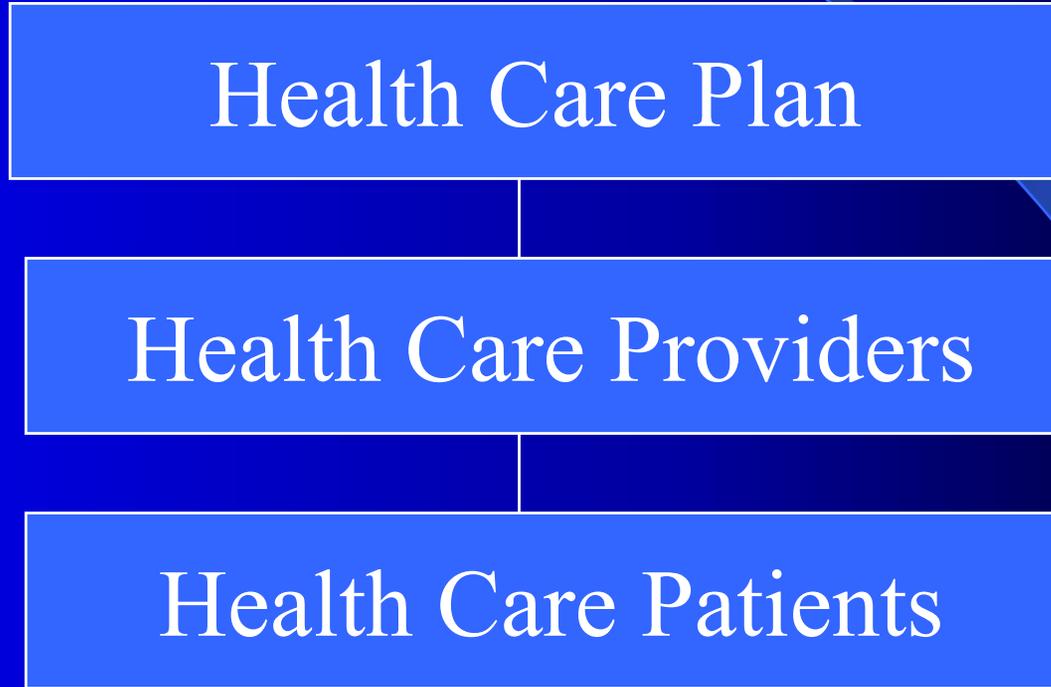
**Establishing and maintaining standards
enables us to fulfill this goal**

The Chain of Fulfillment

Health Care Plan

Health Care Providers

Health Care Patients



Meeting the Challenge — with limited resources

Use the Web to exchange the
HIPAA transactions

Application to Application

Not Person to APP

Emerging Infrastructure – web services

.NET

Microsoft and Partners

40% Market Share

J2EE

Sun Microsystems

IBM

BEA

Oracle

Others

40% Market Share

The Data Model

DBMS

Transaction model

Reporting model

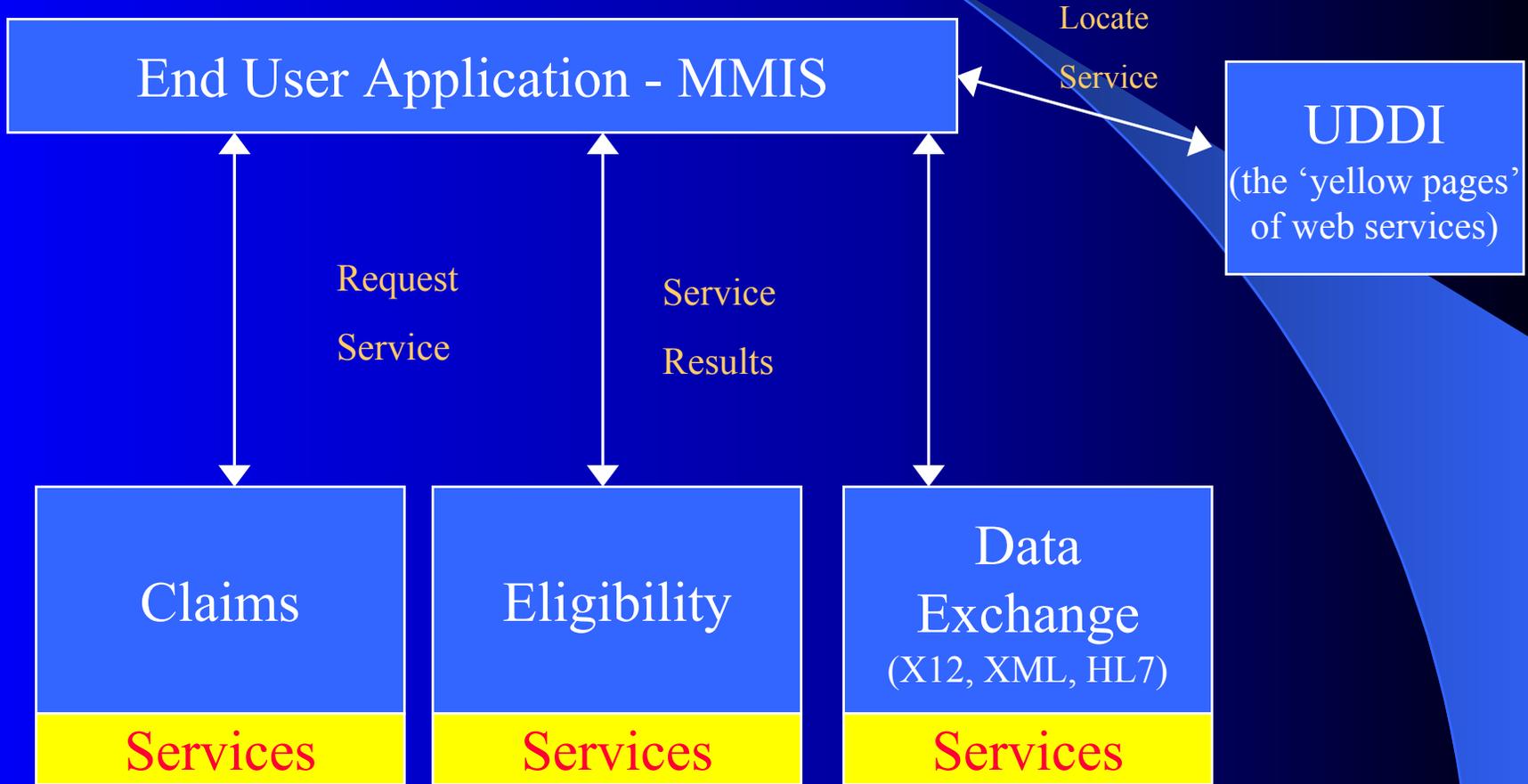
Importance of design (this is the heart)

Object/Relational

LDAP/Directory Services

Consider a core Schema for Medicaid

Web Services – reusing technology



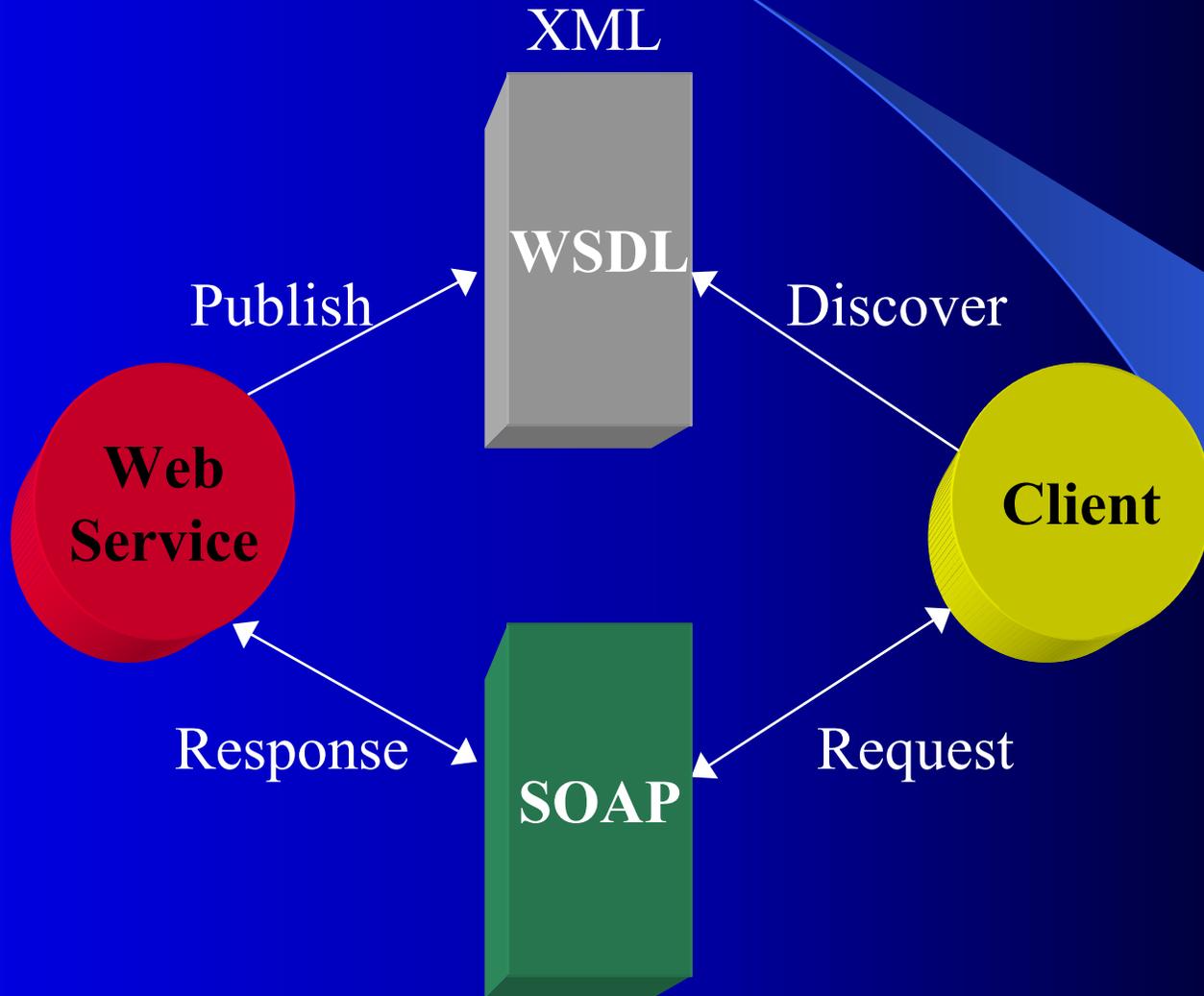
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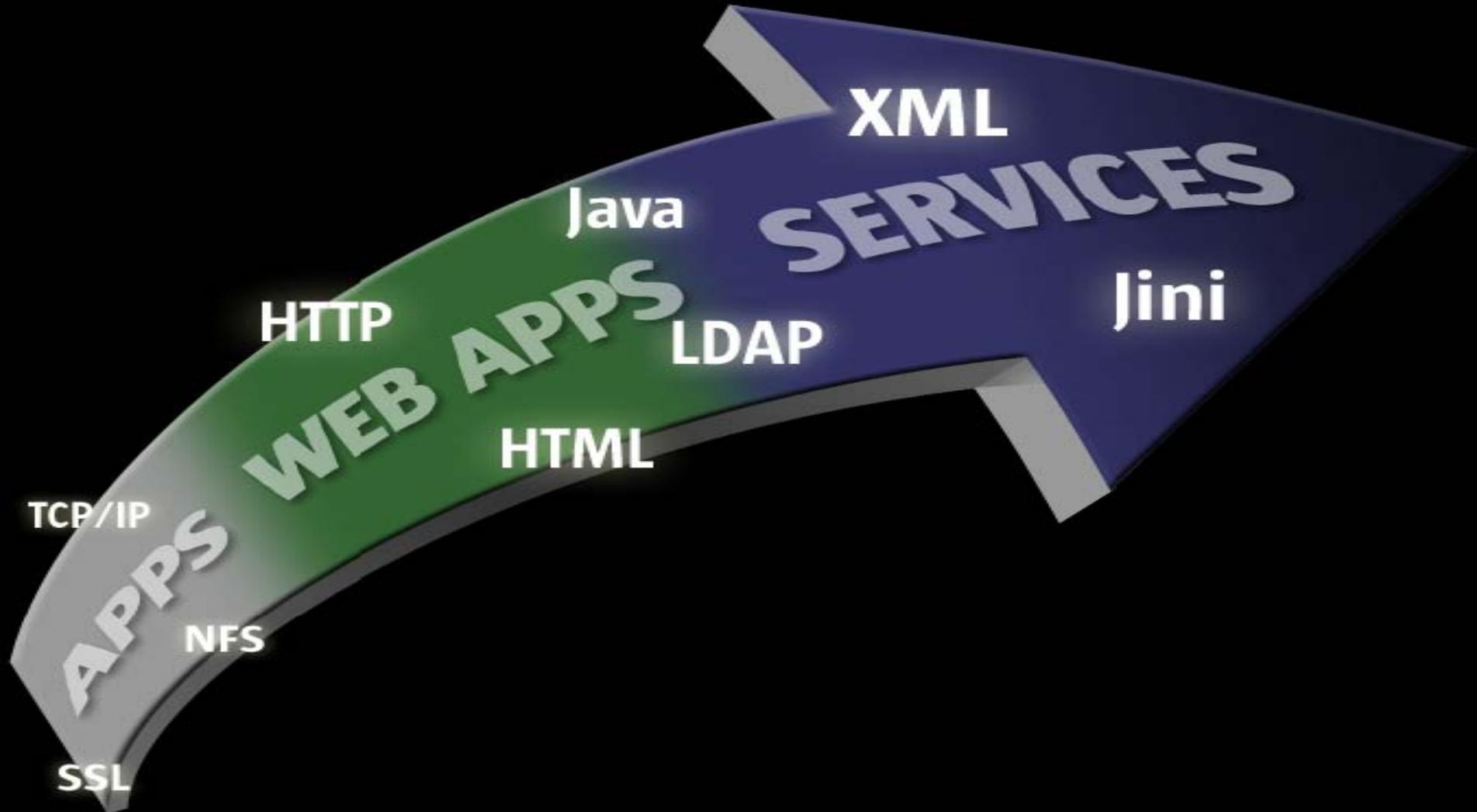
Application to Application

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Web Services – seamless plug and play



Web Services – evolution not revolution



Web Services — advantages

- Standards based to allow interoperability, integration, and communication between different platforms
- Promotes a modular approach to programming so that organizations can reuse the same web services/ components to communicate with multiple organizations
- Employs an existing infrastructure (a network such as the web) to exchange information
- Can significantly reduce the cost of application integration and business-to-business communications thus offering tangible returns on investment

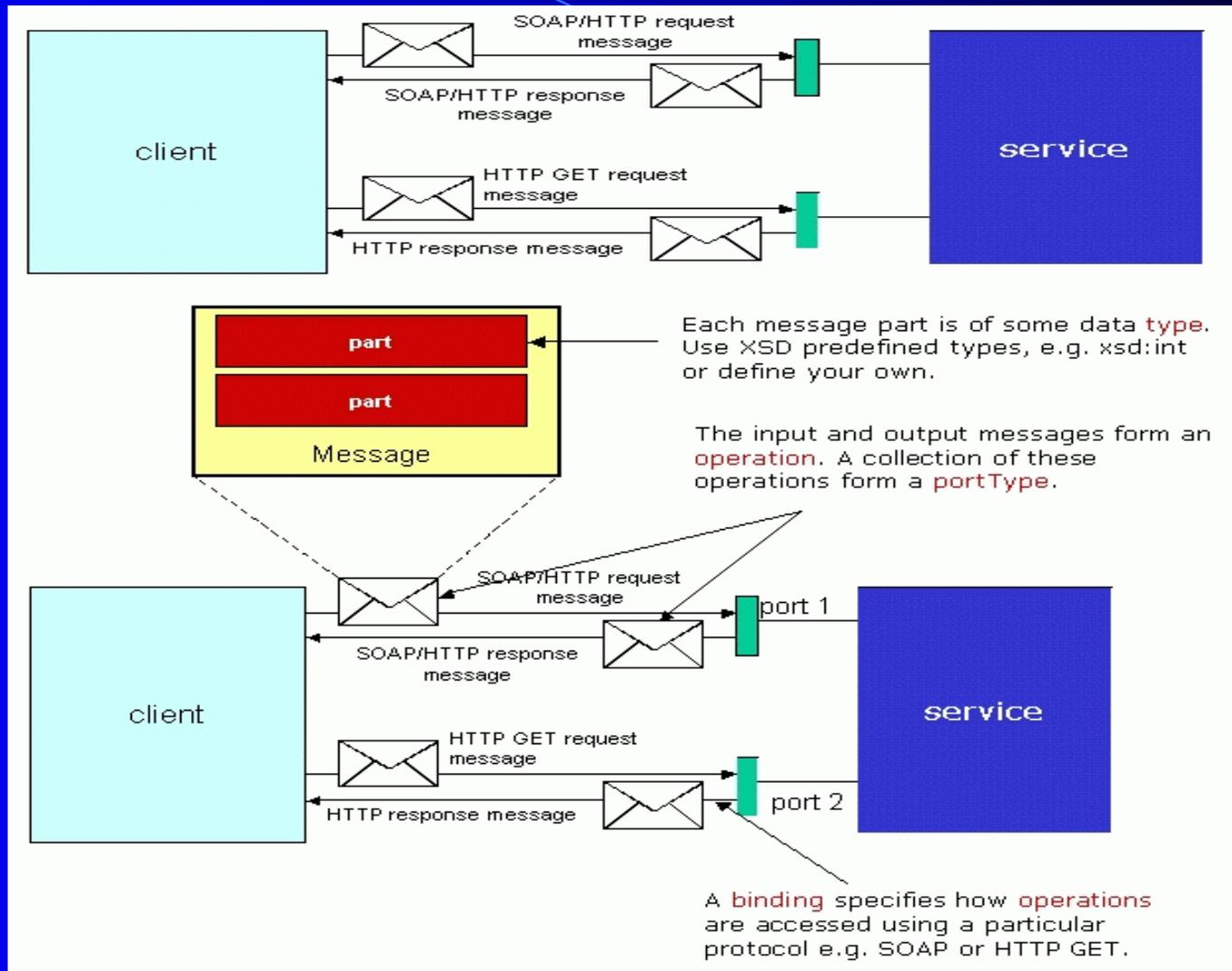
Web Services – publishing and using

Web services published on the Internet have associated WSDL documents which contain the definition of the web service. The WSDL document specifies the web service's capabilities, its location on the web, and instructions regarding how to access it.

Web Services – publishing and using (The Three Ingredients)

1. SOAP (*Simple Object Access Protocol*) is an XML-based standard for allowing an application to access and use the functions of another, across the Internet and while maintaining platform independence.
2. WSDL (*Web Services Description Language*) is an XML grammar used to describe and publish a web service's capabilities to the Internet (<http://www.w3.org/TR/wsdl/> / <http://schemas.xmlsoap.org/wsdl/>)
3. WSDL is used in conjunction with UDDI (*Universal Description, Discovery and Integration*), a virtual yellow pages that allows a business to list its own available web services and discover those of others.

Basics of how WSDL works



<http://www.webservices.net/uszip.asmx>

Web Services – beyond a web browser

- Direct application-to-application
(no user interaction)
- Future devices (PDAs, TVs, etc.)
- Java/C# graphical user interfaces

Web Services – applicability to decision support

- Make better decisions with a WS-based application?
- Impact in development – faster, cheaper?
- Developments to watch closely
- Recommendations / next steps
- Opportunity to share your WS experience with DS applications

Web Services – reusing technology

What web services are needed by
Medicaid?

Some examples:

- Claims Submission
- Claims Status
- Eligibility
- Eligibility Determination and Verification
- Reporting
- Prior Authorization
- Claim Status

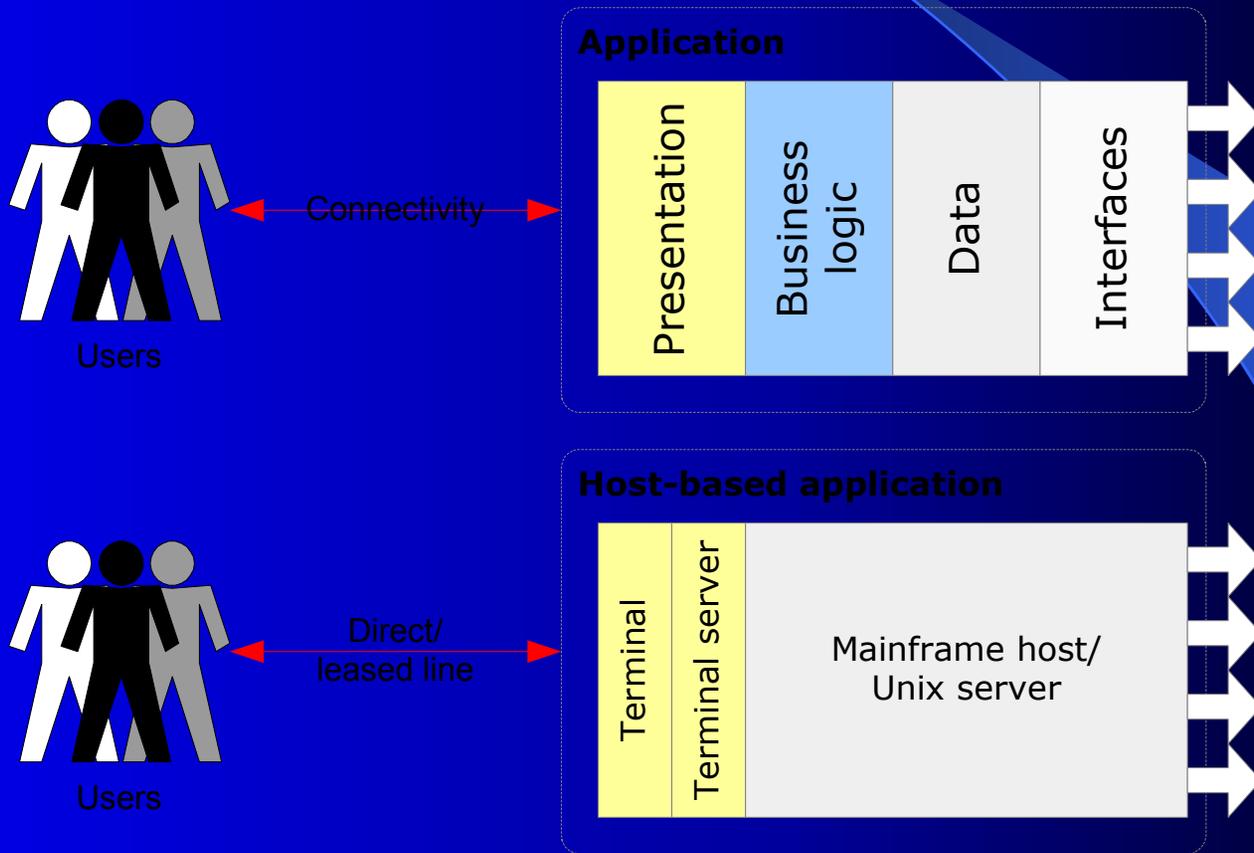
Dean McRobie, Sapient

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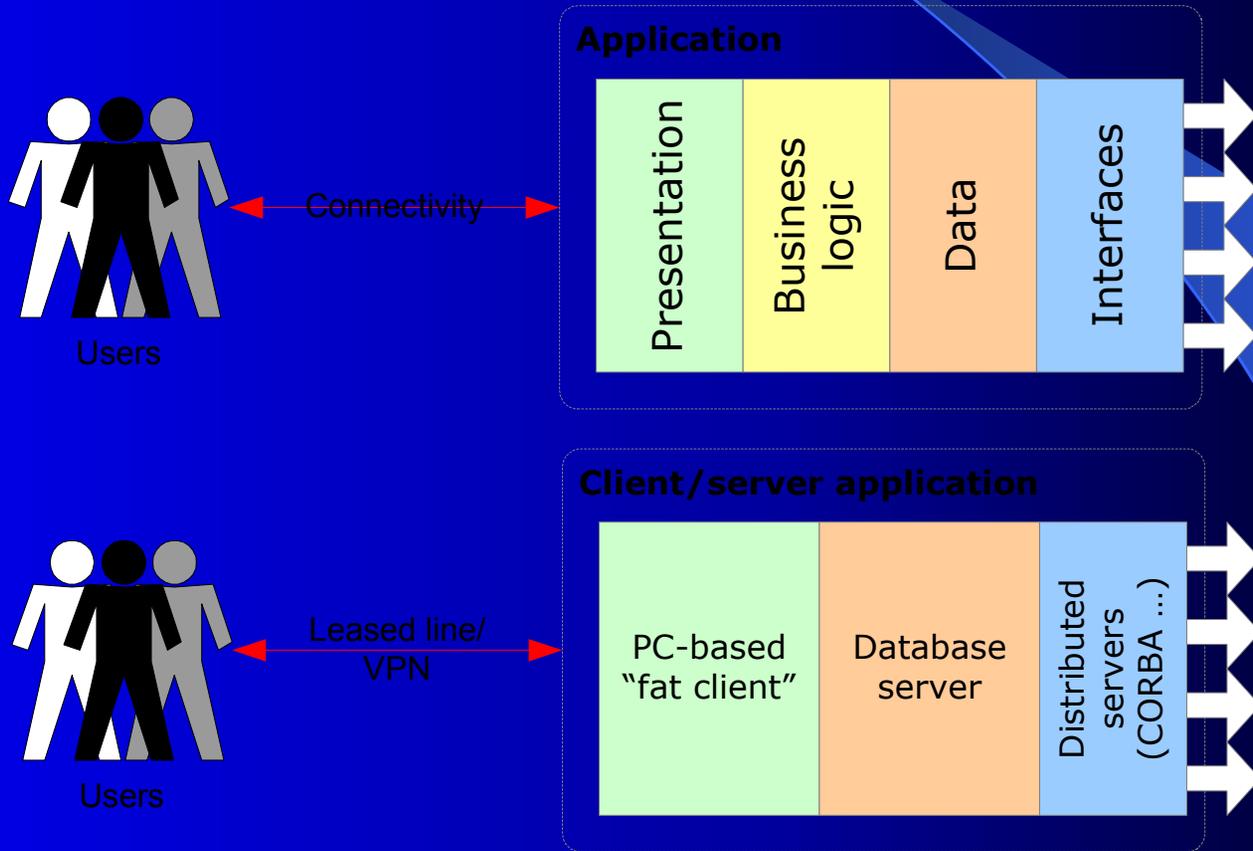
Who am I & what is Sapiient?

- Dean McRobie
 - Senior technical consultant
 - 12 years experience
 - 3 years in commercial payer & provider markets
- Sapiient
 - Global systems integration consultants
 - Fixed-time, fixed-price global development
 - Advanced technology

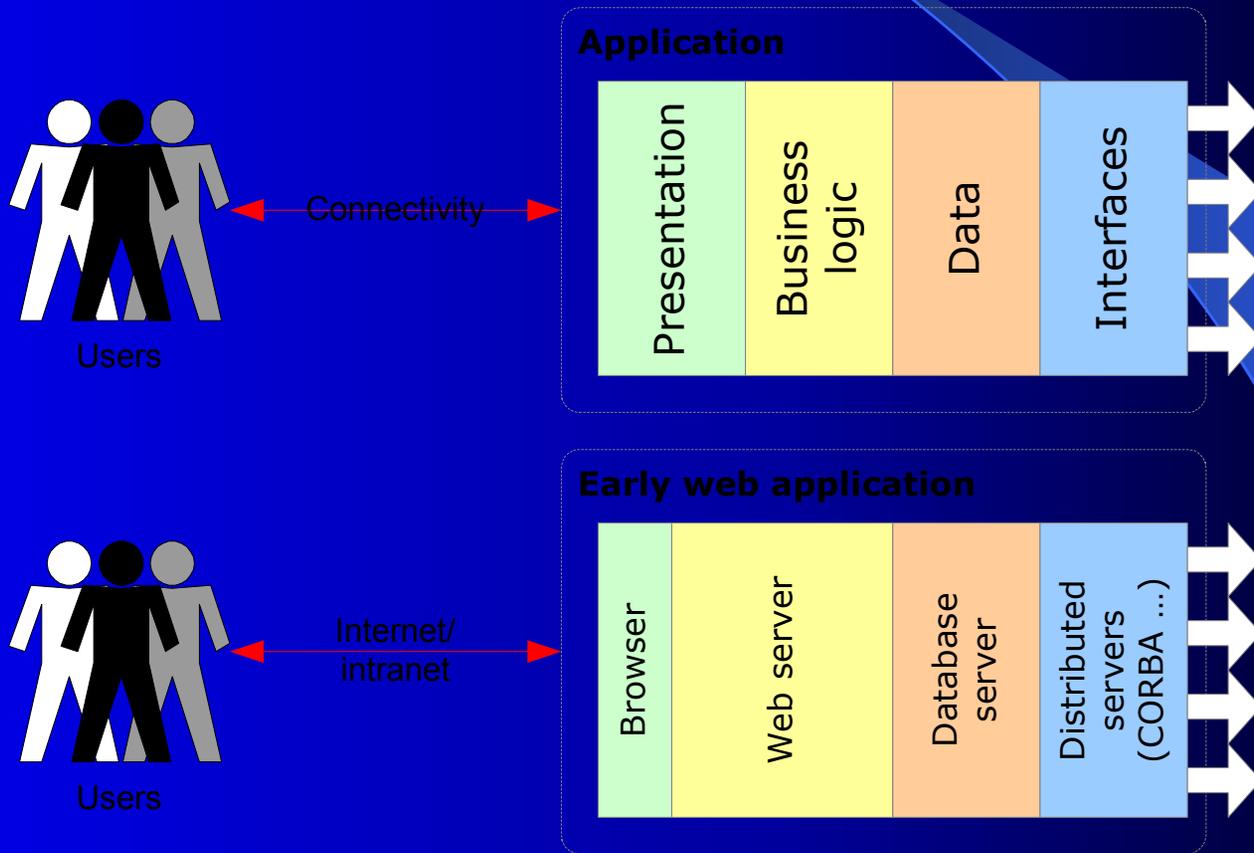
In the beginning there was the computer...



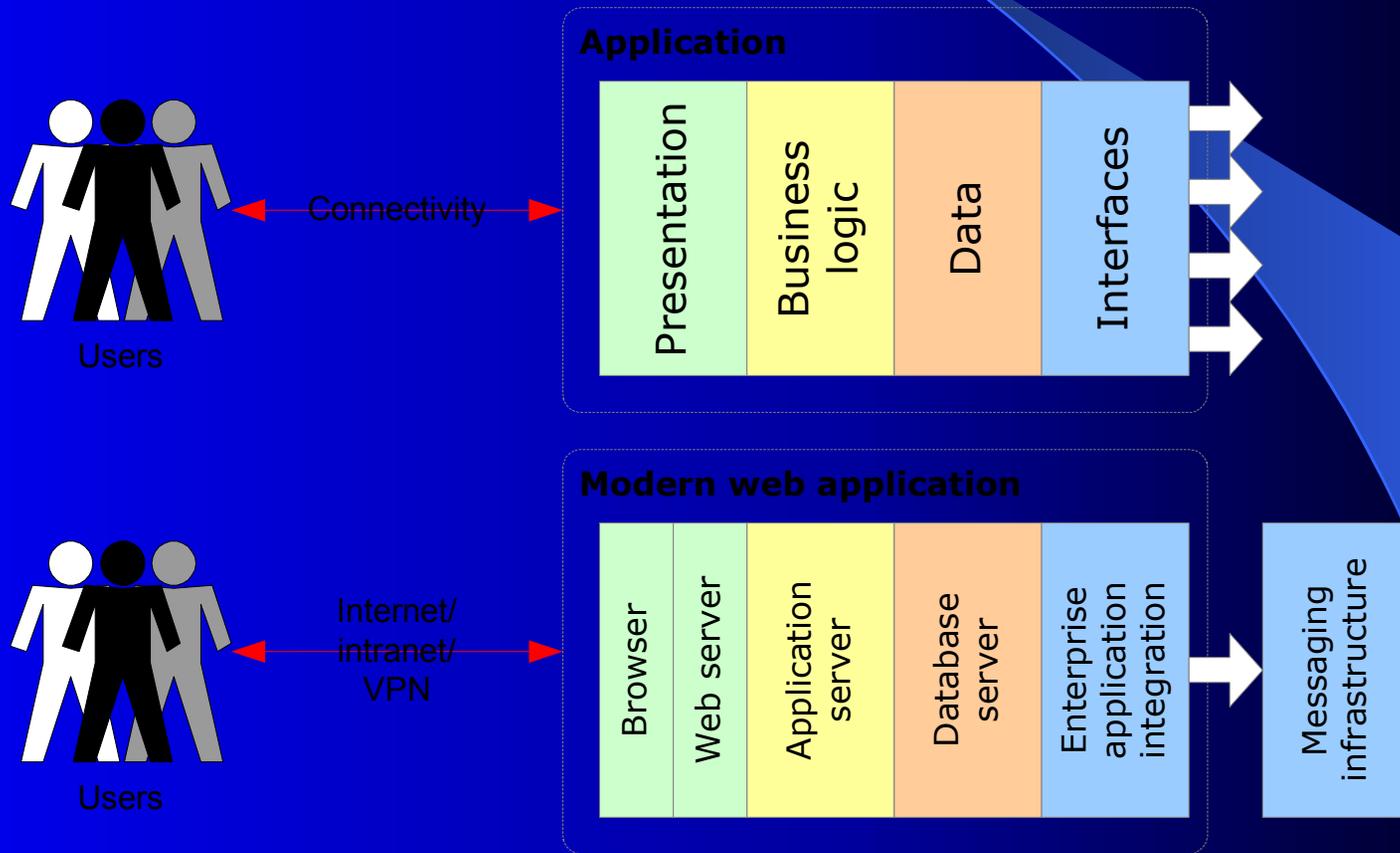
Then there came the network ...



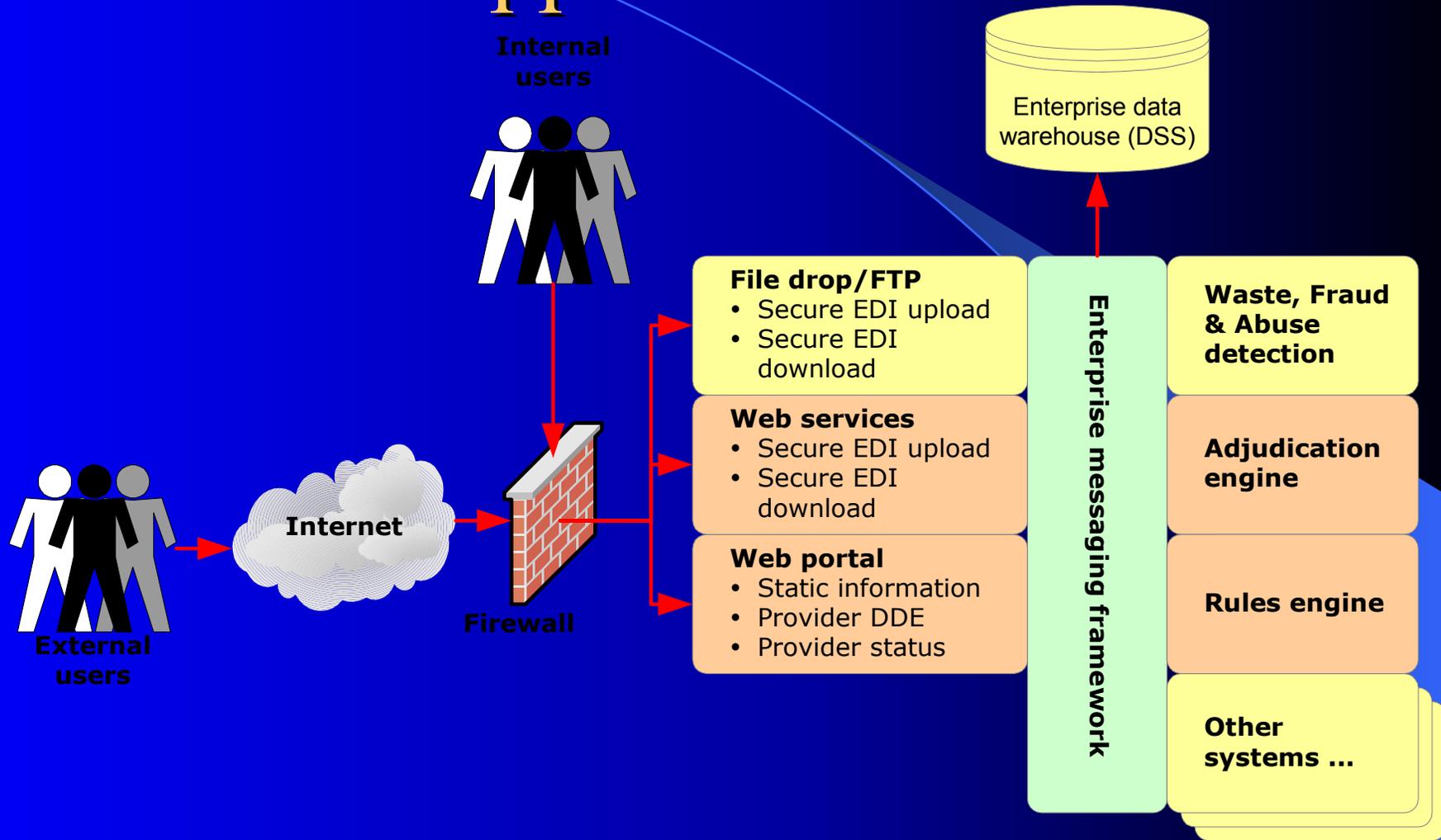
Then there came the internet ...



Then the internet evolved ...



A modern application architecture



Legend

Batch transactions
• Sample functions

Real time/batch transactions
• Sample functions

Integration layer

What does this mean for MMIS?

- Reusable logic & rules
 - Managed by business analysts
- Open system interfaces
 - HIPAA is only the first step
- Business process enhancements
 - Driven by the departments, but automated within an MMIS framework
- User-friendly interfaces
 - Stronger adoption, lower error rates, reduced training costs

Benefits & challenges for MMIS standards

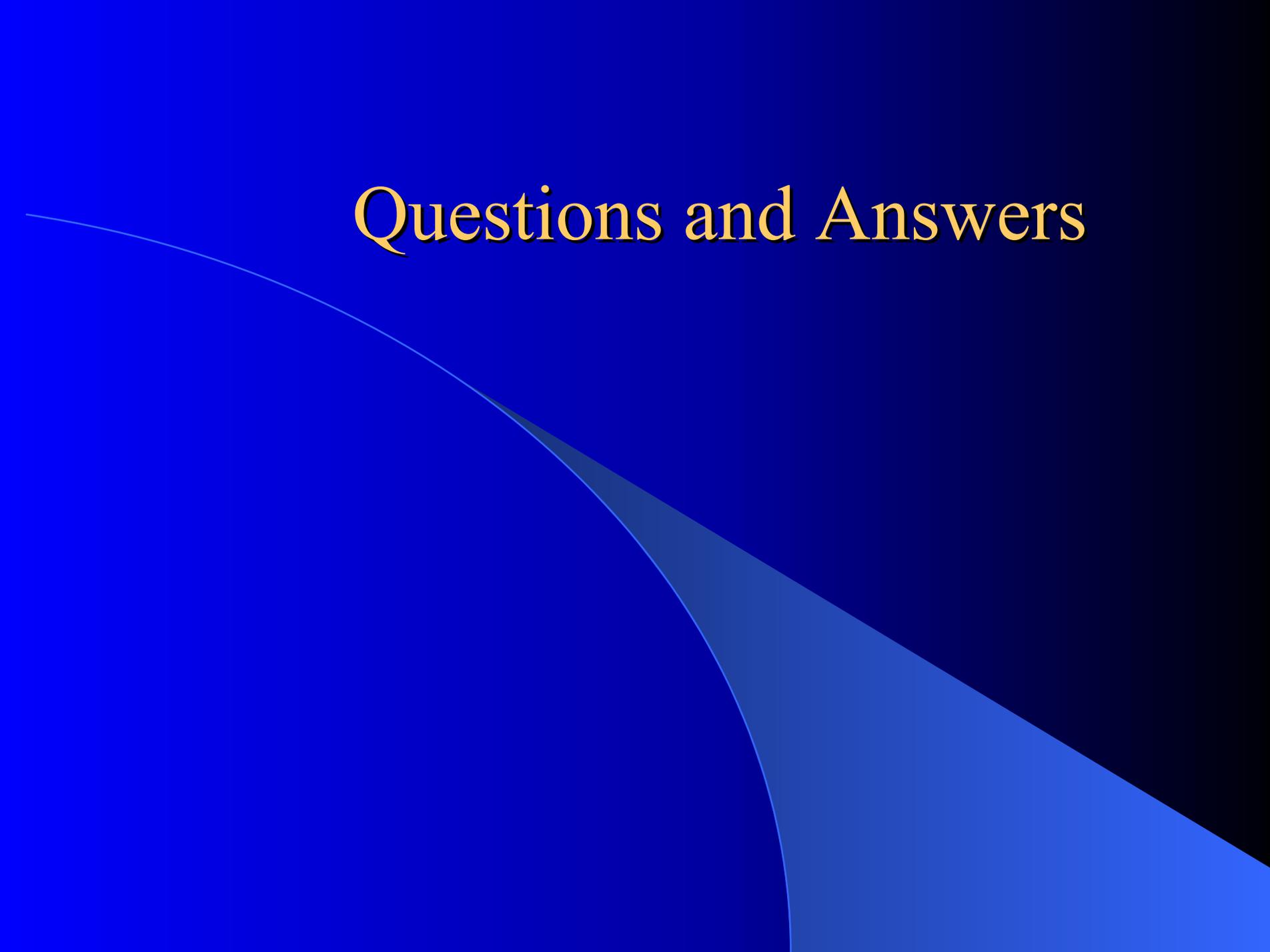
- Benefits

- Reduced cost of ownership
- Reduced long-term integration costs
- Plug and play components
- Smaller procurements

- Challenges

- Standards versus vendors
- Technology immaturity
- Higher short-term integration costs
- Smaller procurements

Questions and Answers

The background is a dark blue gradient. A light blue curved line starts from the left edge, curves downwards and then rightwards, creating a large, light blue triangular shape in the lower right quadrant.