



# Liberty Alliance

## From Usecases to Specifications

**Fulup Ar Foll**

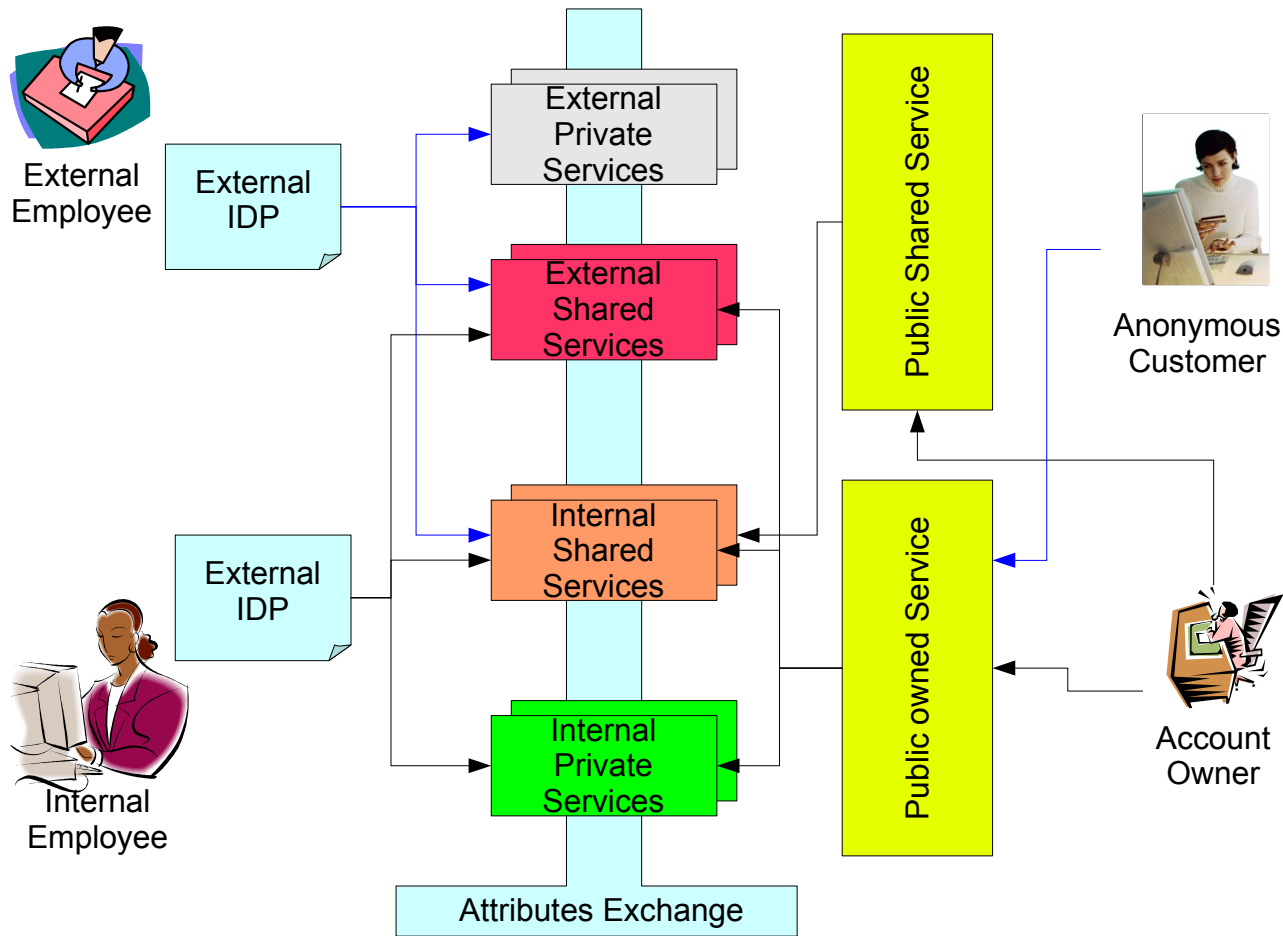
Master Architect

Global Software Practice

Sun Microsystems



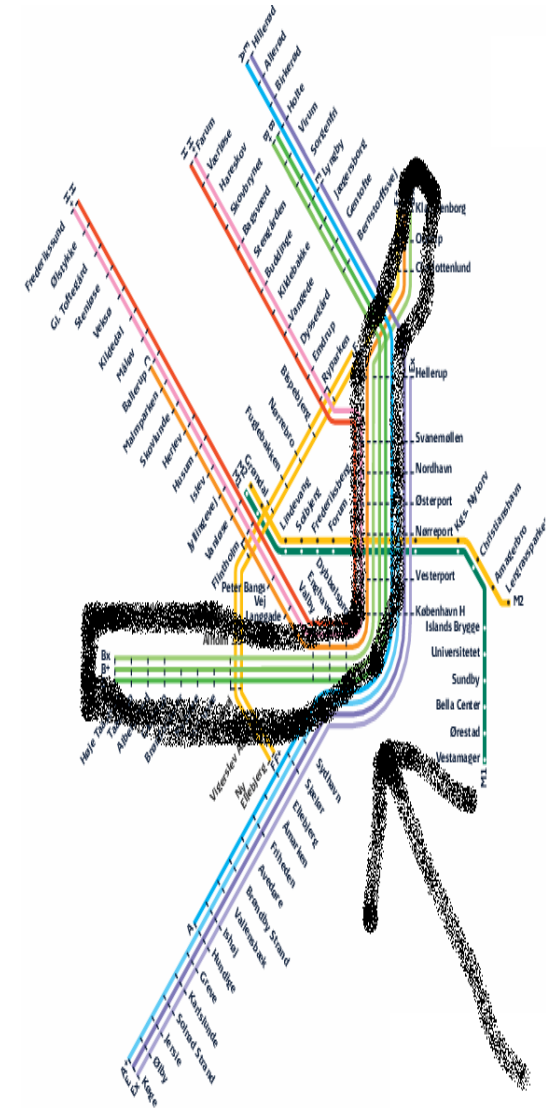
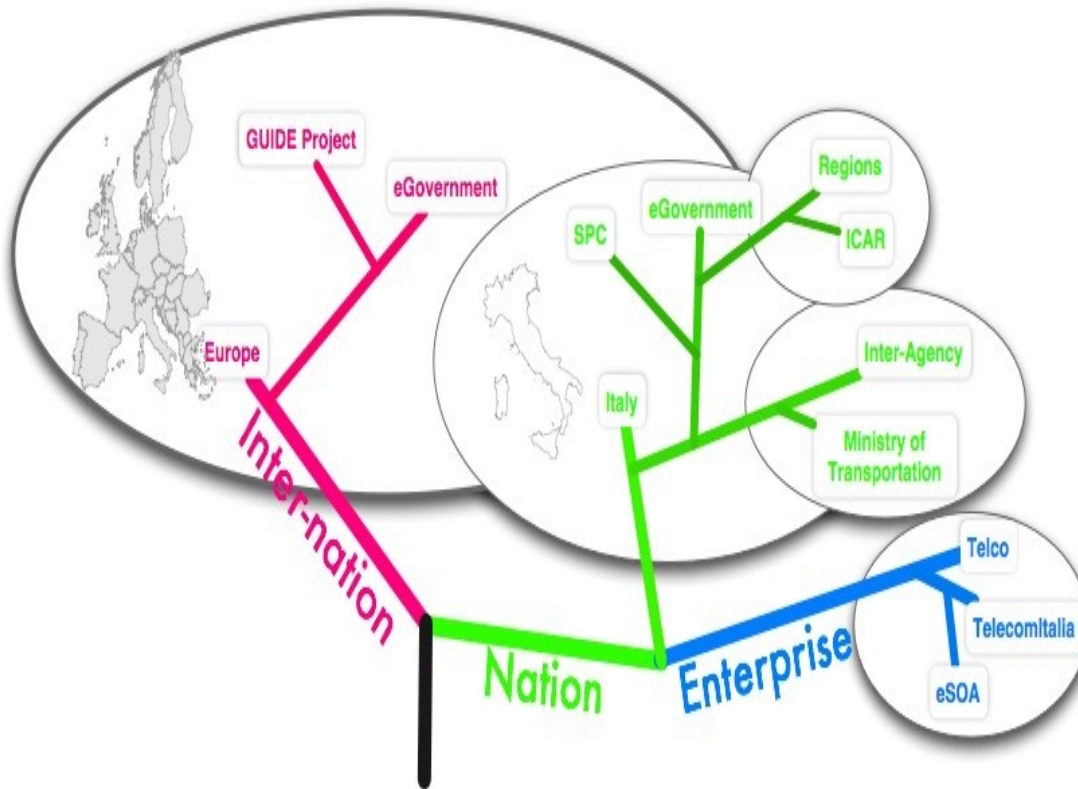
# Why Federation



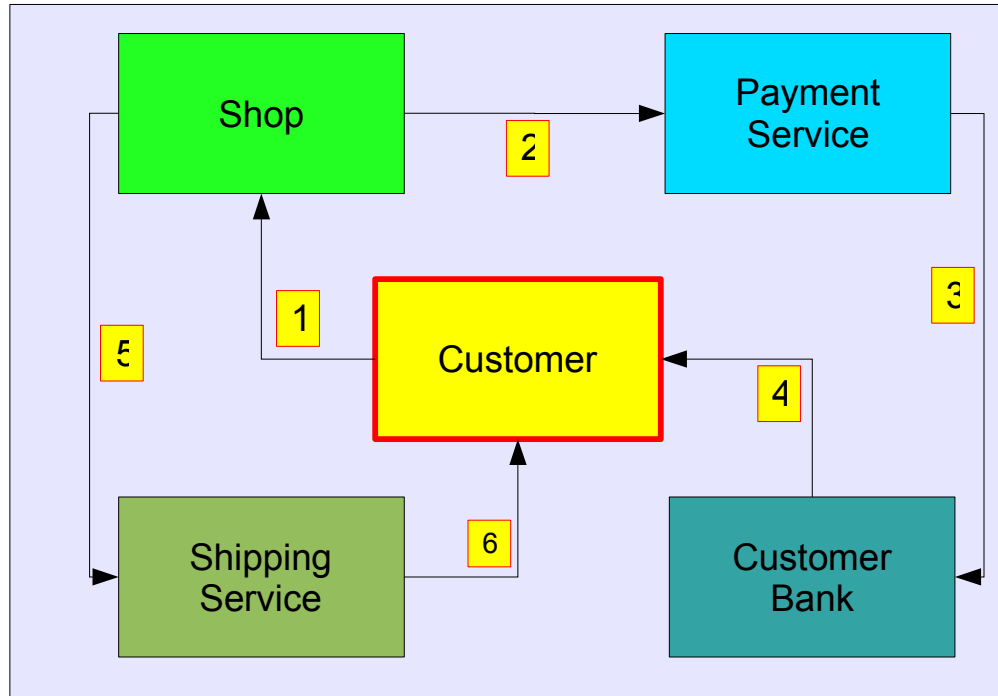
# What's About Federation

- **Federation of providers (CoT)**, a group of entities providing services who signed agreement, in order to make life of shared customers/users (*Principal*) more simple.
  - × *accept Principal identity authentication to be done once per session (SSO) and by a shared authority (IDP)*
  - × *Accept to provide service knowing only an “avatar” of principal identity (Opaque Handle/Federation Key). This non significant pointer on principal identity allowing service provider (SP) to know that “it is him” without knowing “who he is”.*
- **Federation**: a weak link that allow to map a principal avatar identity used by a service provider to the effective principal identity know only from the authority of authentication (IDP).
- **Federated Identity**: The data/attributes at the service provider attached to a principal identity avatar.

# Think Big / Start Small



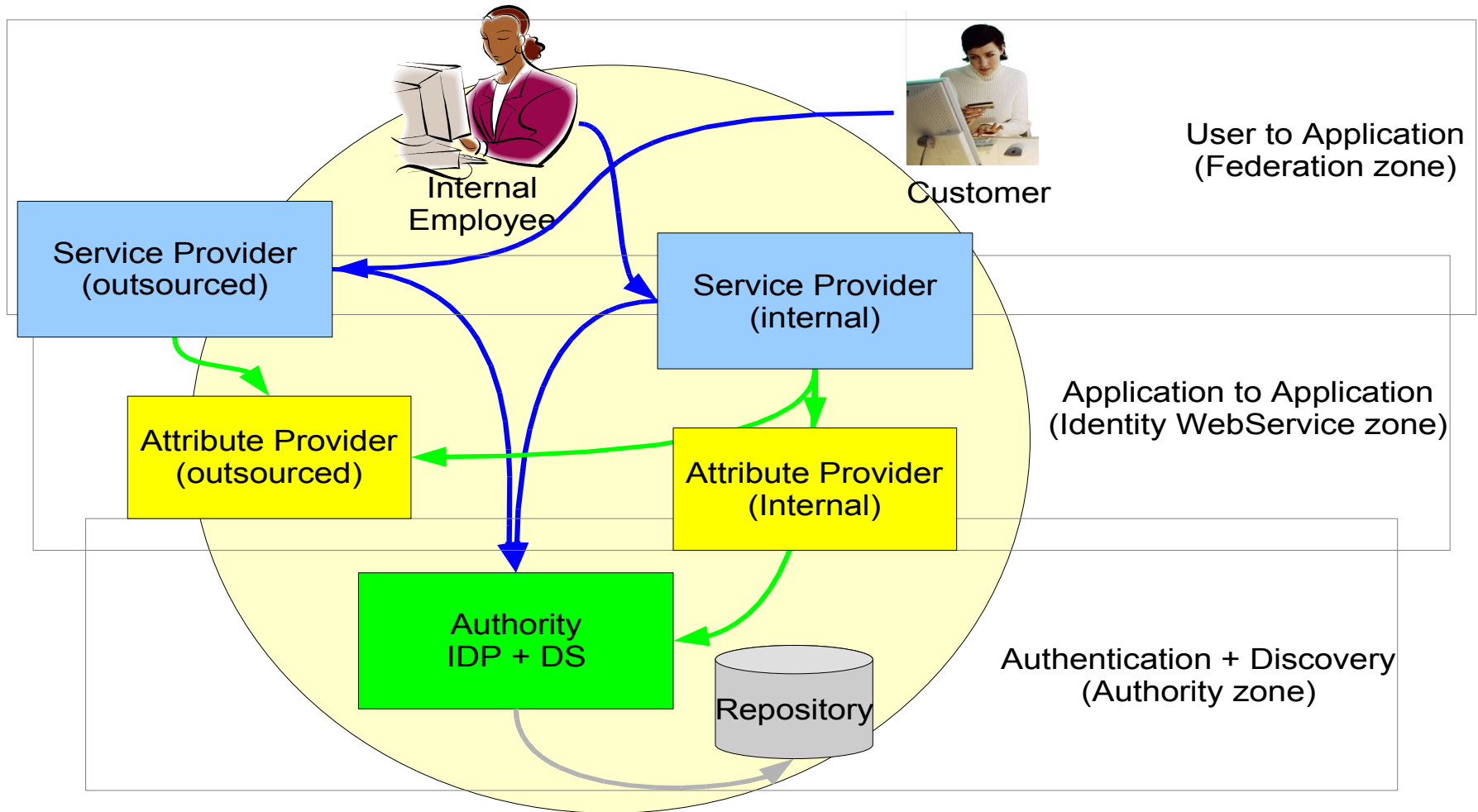
# Don't Forget Privacy



- 1) User buy something
- 2) Shop check payment service (Visa, Amex, Paypal, ...)
- 3) Payment Service check customer bank
- 4) Bank check user consent
- 5) Shop give packet to shipping service
- 6) Good is deliver where ever customer want

Actor	Must have relation with	Must know Attributes
•Customer:	vendor, shipping, bank	products(choose), price(accept), delivery address (choose/select)
•Shop:	payment, shipping	price (own), product (from customer)
•Shipping:	shop	delivery address (from customer)
•Payment	shop, bank	price(from shop), bank(from customer)
•Bank:	payment, customer	price (from payment), bank account(own)

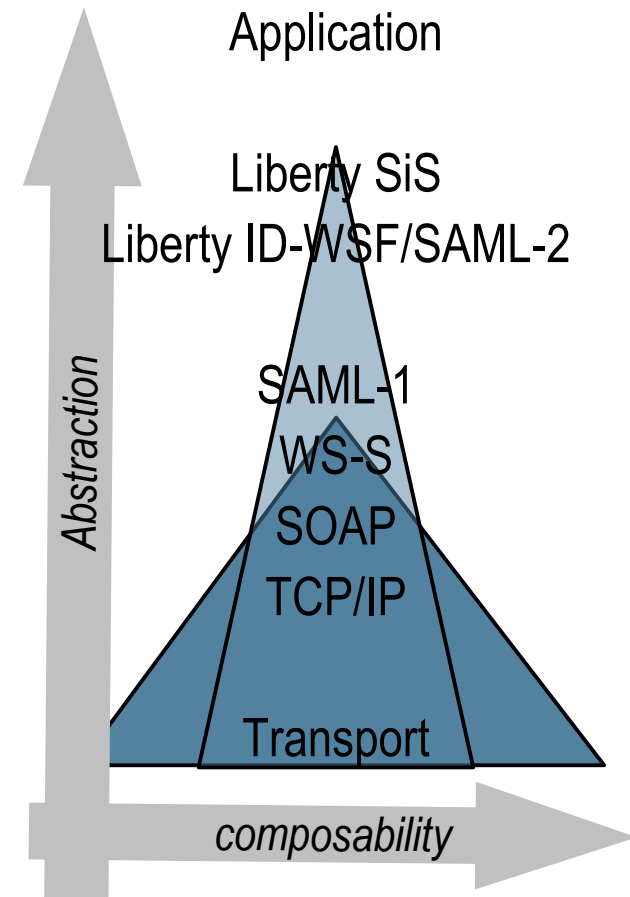
# Liberty Self Contain Circle of Trust



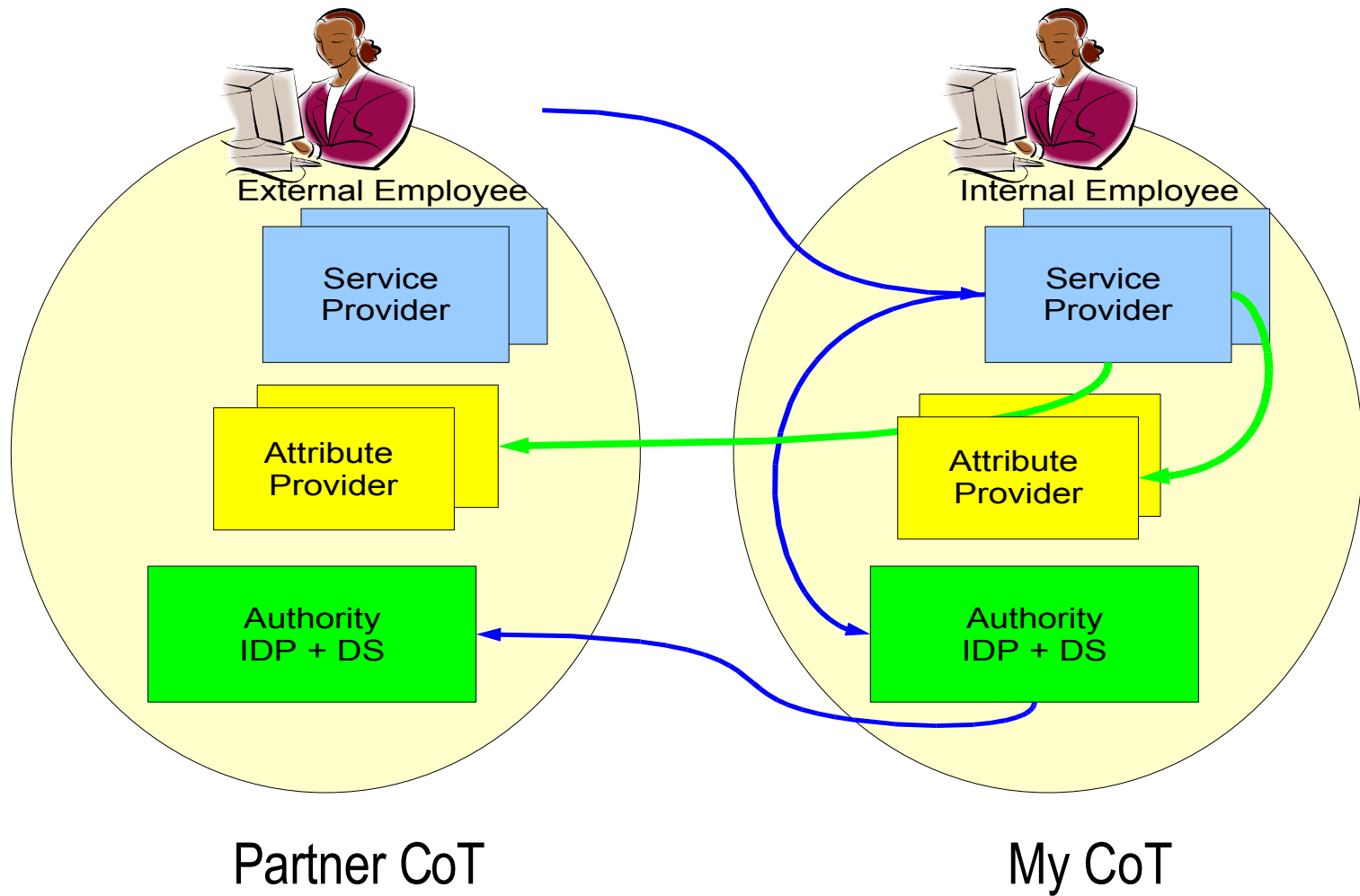
➔ SAML-2    
 ➔ ID-WSF    
 ➔ Custom

# Liberty Technical Framework

- ID-FF (Identity Federation Framework)
  - > Federation/Defederation
  - > SSO (*single & simplified Sign On*) / SLO (*single logout*)
  - > Authentication context & Attributes
  - > Metadata
- ID-WSF (Identity Web Service Framework)
  - > Authentication Service
  - > Discovery Service
  - > DST (Data Service Template)
  - > Interaction Service
- ID-SIS (Identity Service Interface)
  - > Personal profile, Geoloc, Presence, Contact Book, ...

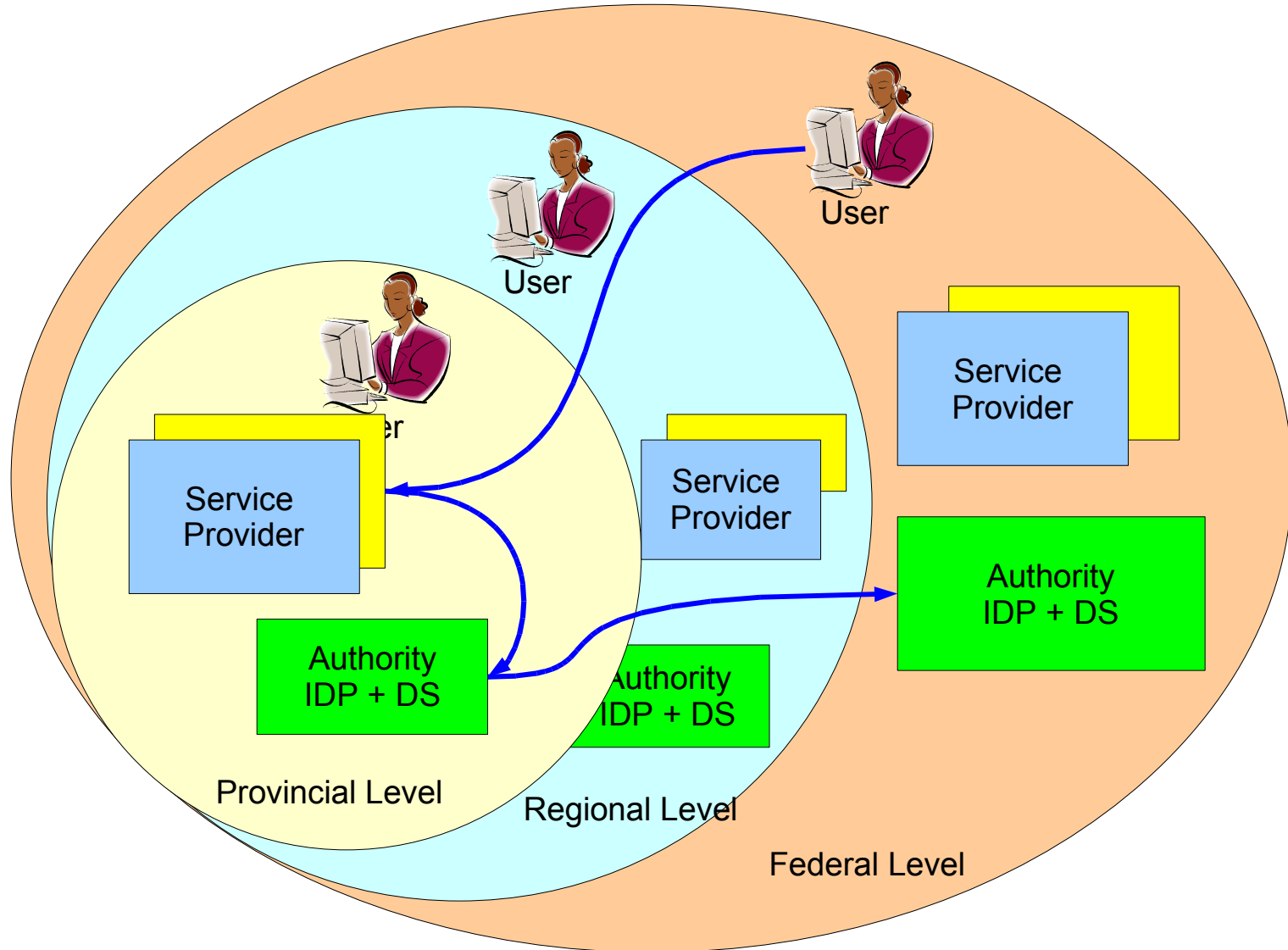


# CoT Peering (Roaming user/service)

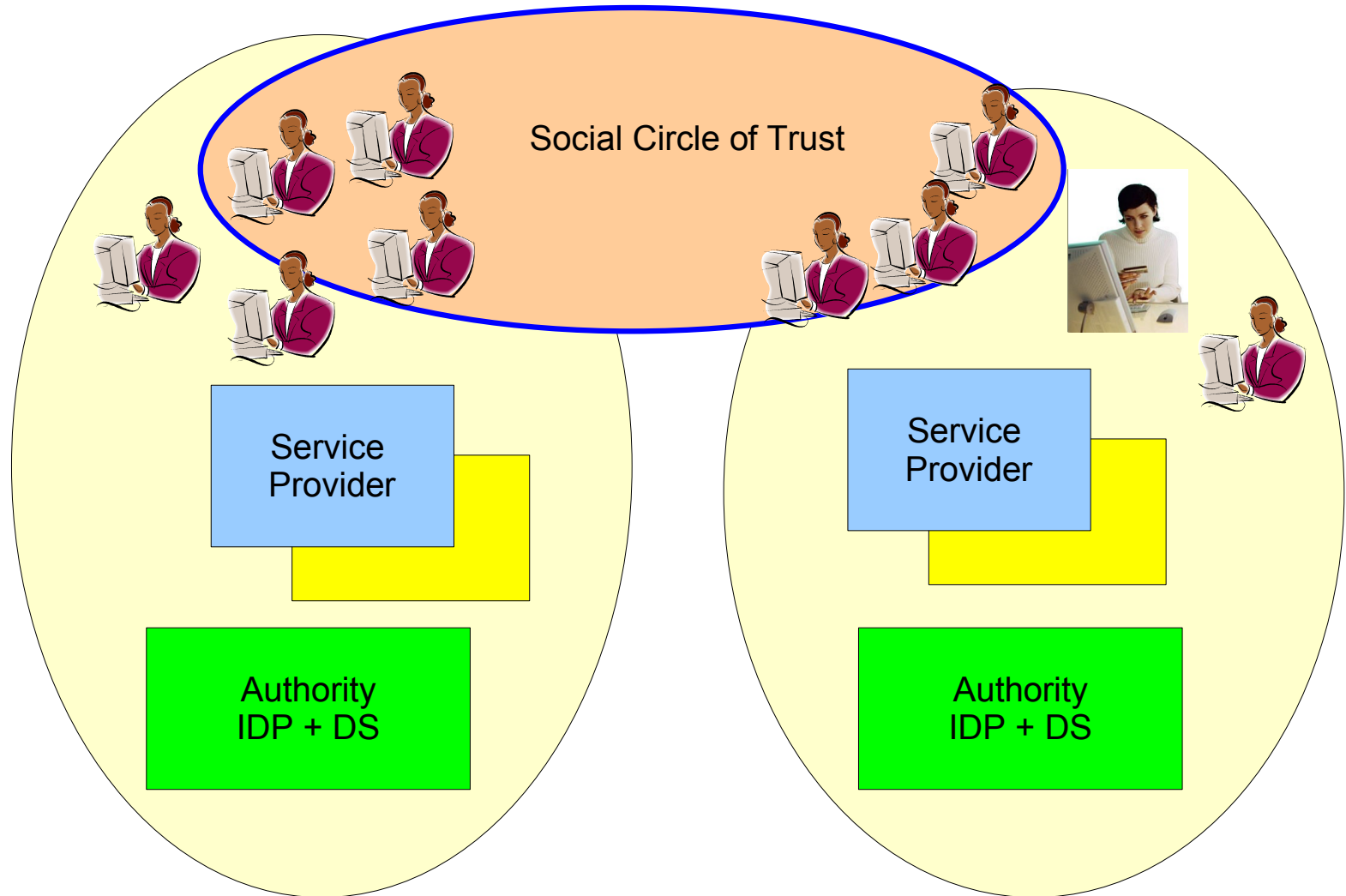




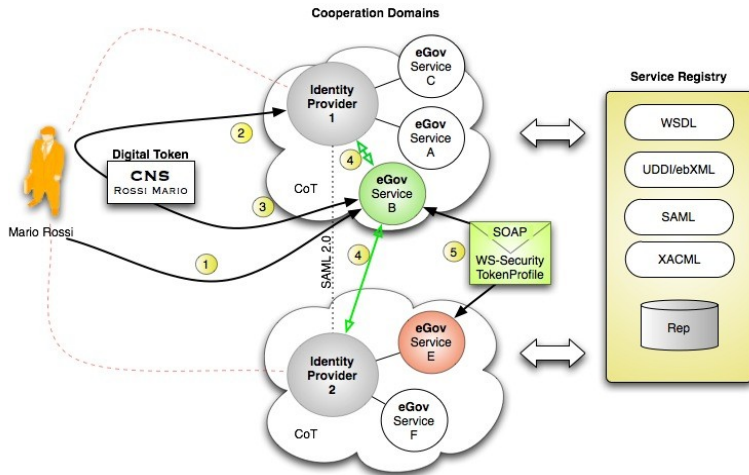
# Hierarchies of CoT



# Social Networking & Cross ID



# Technology is Mature

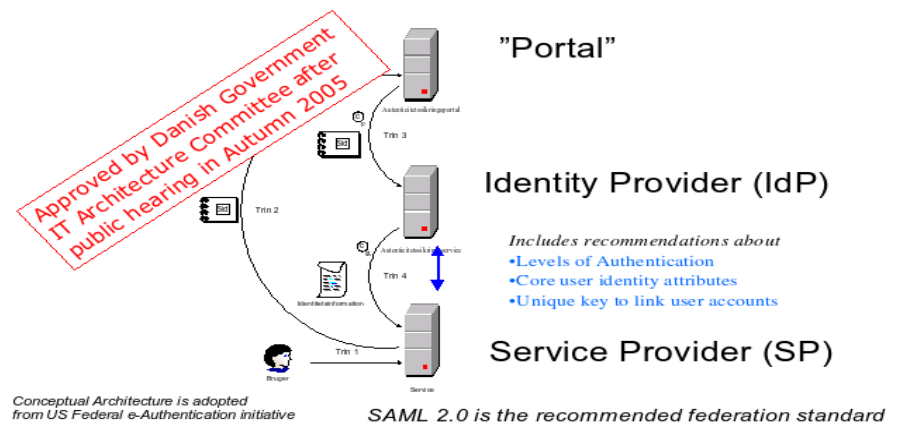


Le projet de portail Mon.Service-Public.fr doit permettre à l'utilisateur - personne physique ou morale - l'accès à une gamme cohérente et étendue de services dans un environnement personnalisé, et ce dans des conditions permettant de créer la confiance. Une version pilote a été développée et testée par 500 usagers mi 2006. Après des conclusions plutôt positives sur cette expérimentation et l'intérêt du service, la phase de réalisation du système "grand public" a été lancée.

## Liberty Alliance ID-WSF 1.1



## Reference Architecture for Cross-organizational Single Sign On





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