



CentraleSupélec

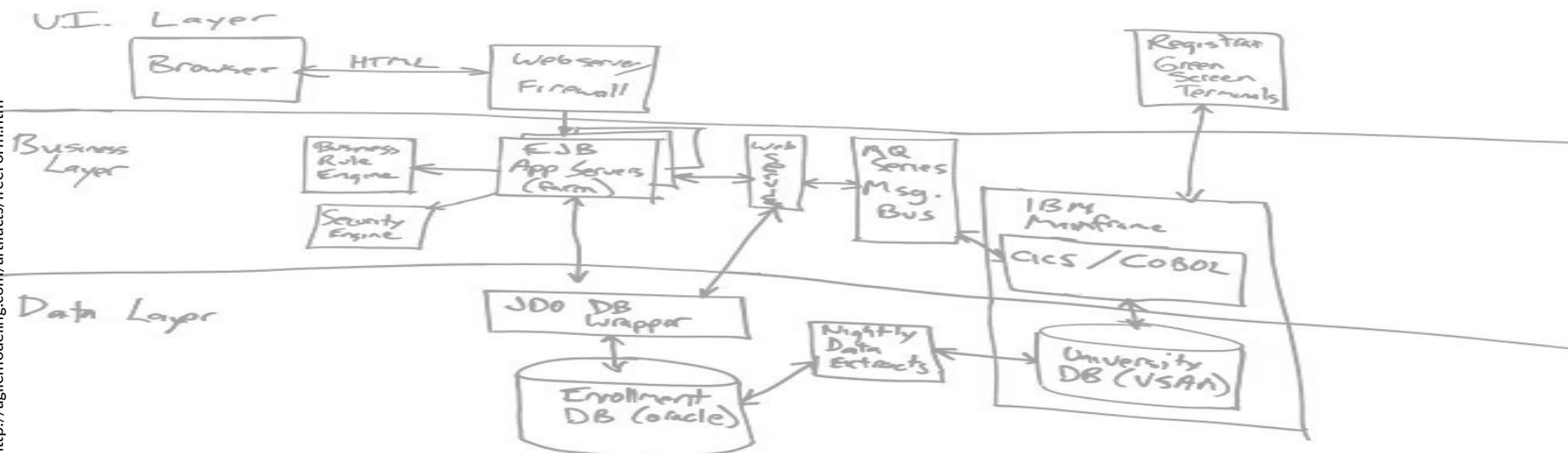
EXE

Virginie.Galtier@centralesupelec.fr

Mastère Spécialisé
Architecte des Systèmes d'Information

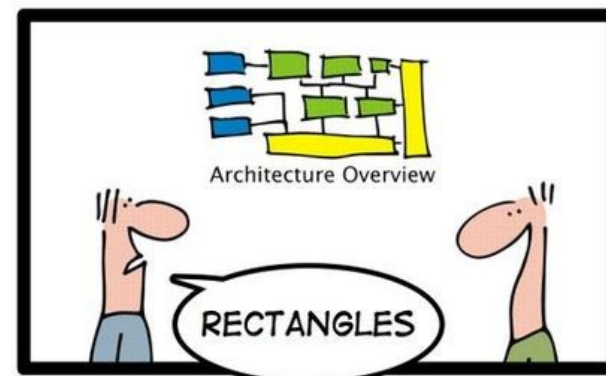
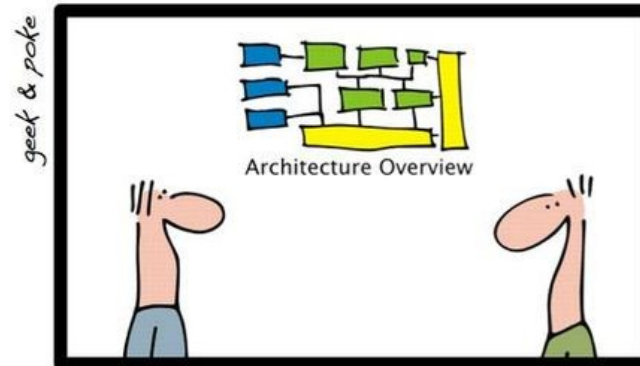
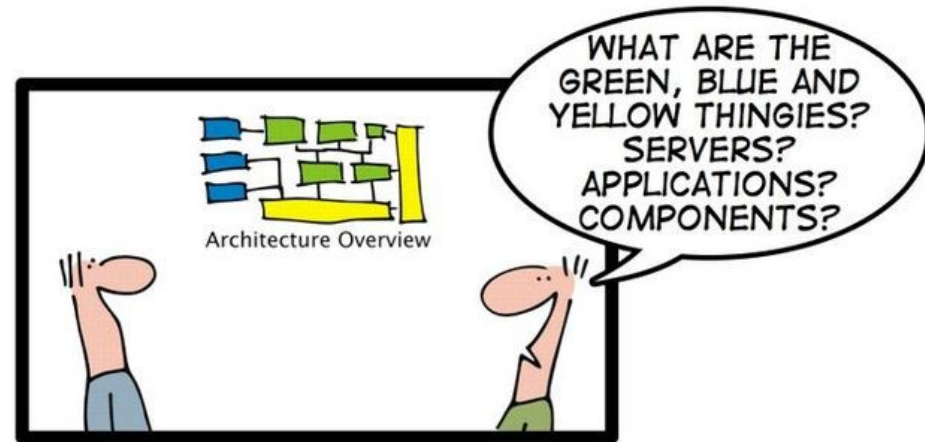
Module *Fondamentaux d'architecture logicielle* Architectures Applicatives

Jour 1 - 08/02/2024

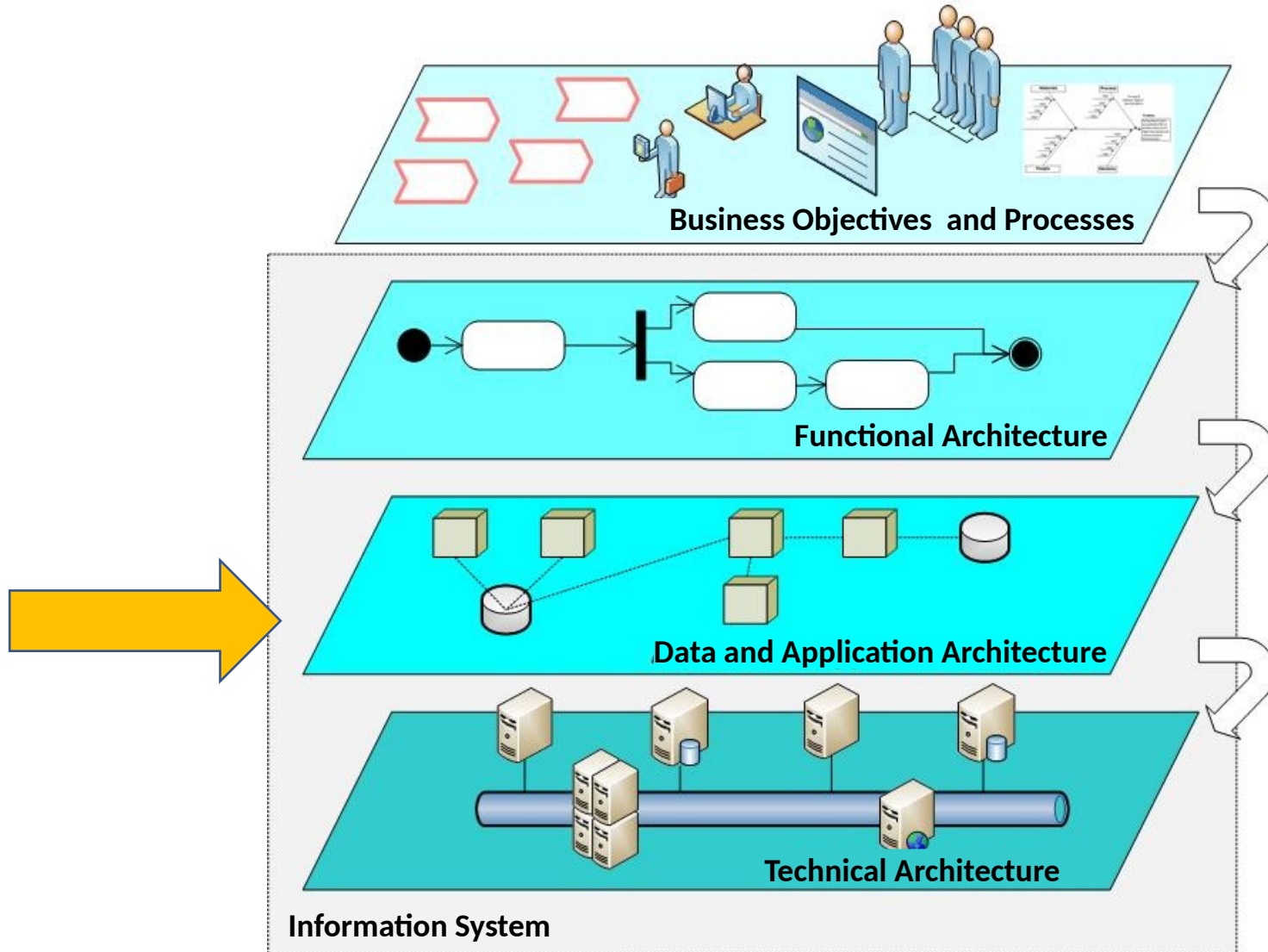


Architecture

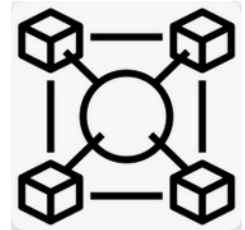
- Design or structure of a software system
- Assembly of communicating software blocks to provide a set of services



Application Architecture in the Information System



Key Traits Expected in Application Architecture



Key Traits Expected in Application Architecture



Robustness



Availability



Security



Performance



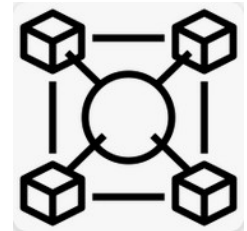
Scalability



Reliability



Functionality



Interoperability



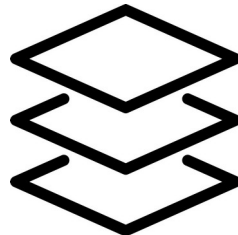
Usability



Simplicity



Maintainability



Extensibility



Adaptability



Evolvability

Objectif de la journée

- Dresser un panorama des différentes familles d'architectures applicatives
- Sensibilisation à la problématique de la transition
- Fondamentaux qui seront complétés par d'autres cours, dont
 - jour 2 (9 février)- tendances et évolutions : *SOA, services patterns at the cloud era*
 - intégration applicative (6 et 7 mars)

Programme de la journée



- Architectures Applicatives

- Couches, tiers et middleware, du monolithe aux microservices
- Éléments architecturaux pour le passage à l'échelle et la tolérance aux pannes
- Cas des architectures Web et Mobile



- Études de cas