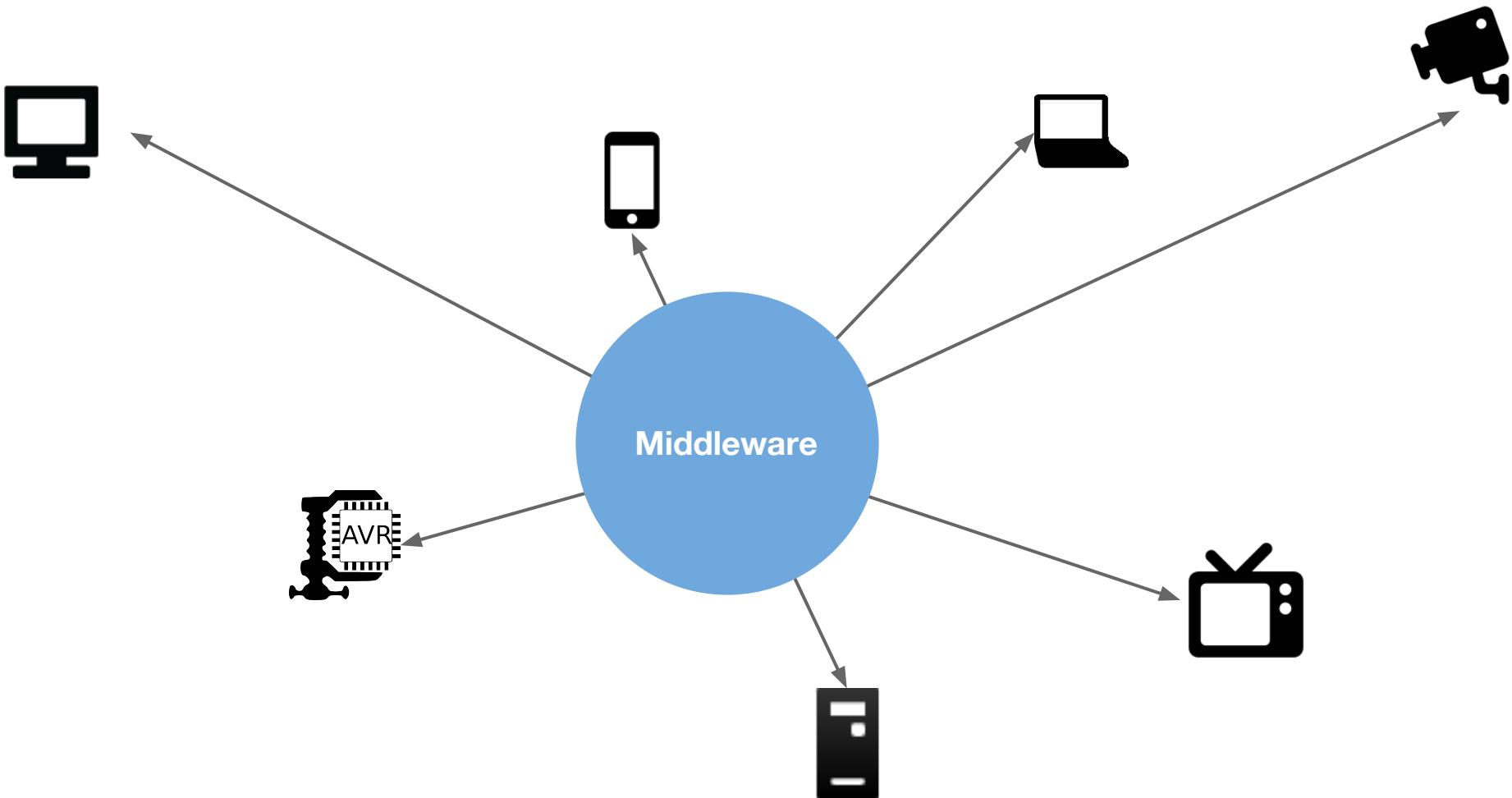
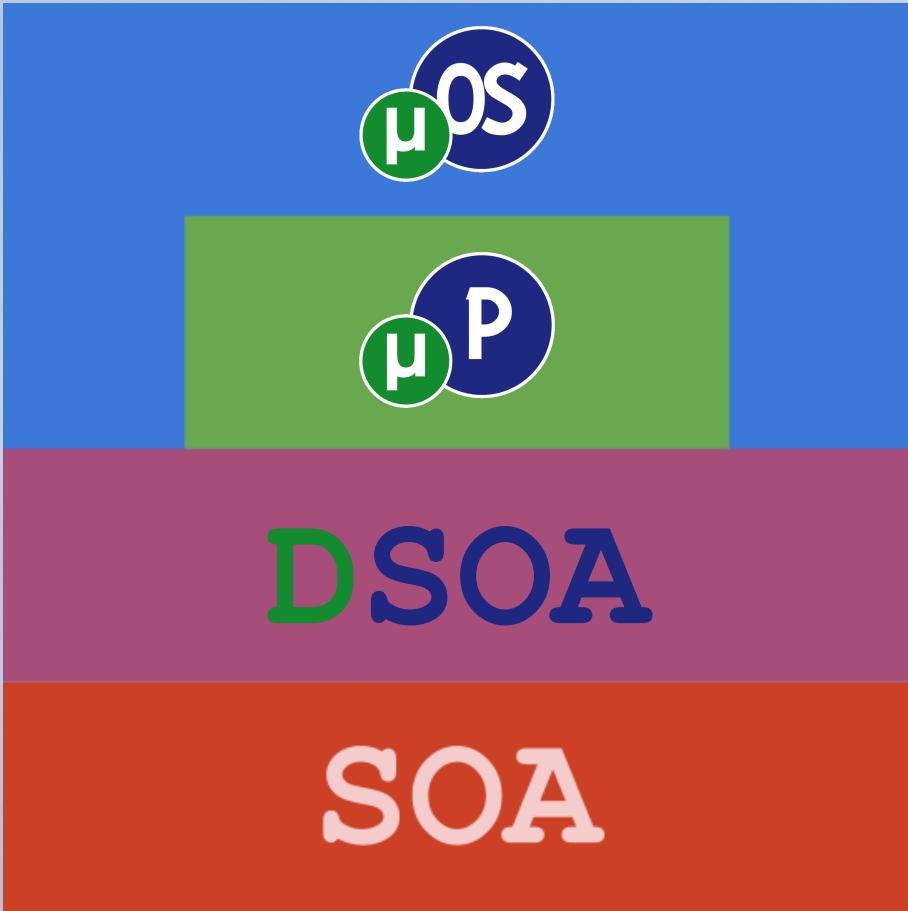


# ubizen

**Games Edition**  
**Estudos em Jogos Ubíquos**

# Plataforma UnBiquitous







**DSOA**



# Service Oriented Architecture

## DSOA

# Device



# Architecture SOA

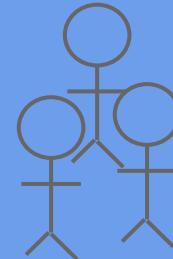
*"Um **paradigma** para a organização e utilização de **capacidades distribuídas** que possam se encontrar sob o controle de diferentes domínios e propriedades"*

# SOA

# Comercial



# TI



# Contábil



*"Serviço é um mecanismo que disponibiliza uma ou mais **funcionalidades**, onde o acesso é provido através de uma **interface** definida entre as partes"*

# Serviço

*"Serviço é um mecanismo que disponibiliza uma ou mais **funcionalidades**, onde o acesso é provido através de uma **interface** definida entre as partes"*

# Serviço



# Efeito

*"Serviço é um mecanismo que disponibiliza uma ou mais **funcionalidades**, onde o acesso é provido através de uma **interface** definida entre as partes"*

# Serviço



Visibilidade

Interação

Efeito

A black and white photograph of a snow-covered landscape. In the foreground, there's a snowdrift on the right and a path leading towards a group of snow-laden trees. The trees are heavily covered in snow, hanging low over the path. A street lamp stands on the left side of the path. The background shows more snow-covered trees under a bright sky.

**Consumidor**



A black and white photograph of a snow-covered landscape. In the foreground, there's a snow-covered path or road. On either side of the path are several tall trees, their branches heavily laden with snow. Streetlights are visible along the path, their tops also covered in snow. The sky is overcast and grey.

**Consumidor**

**Proveedor**



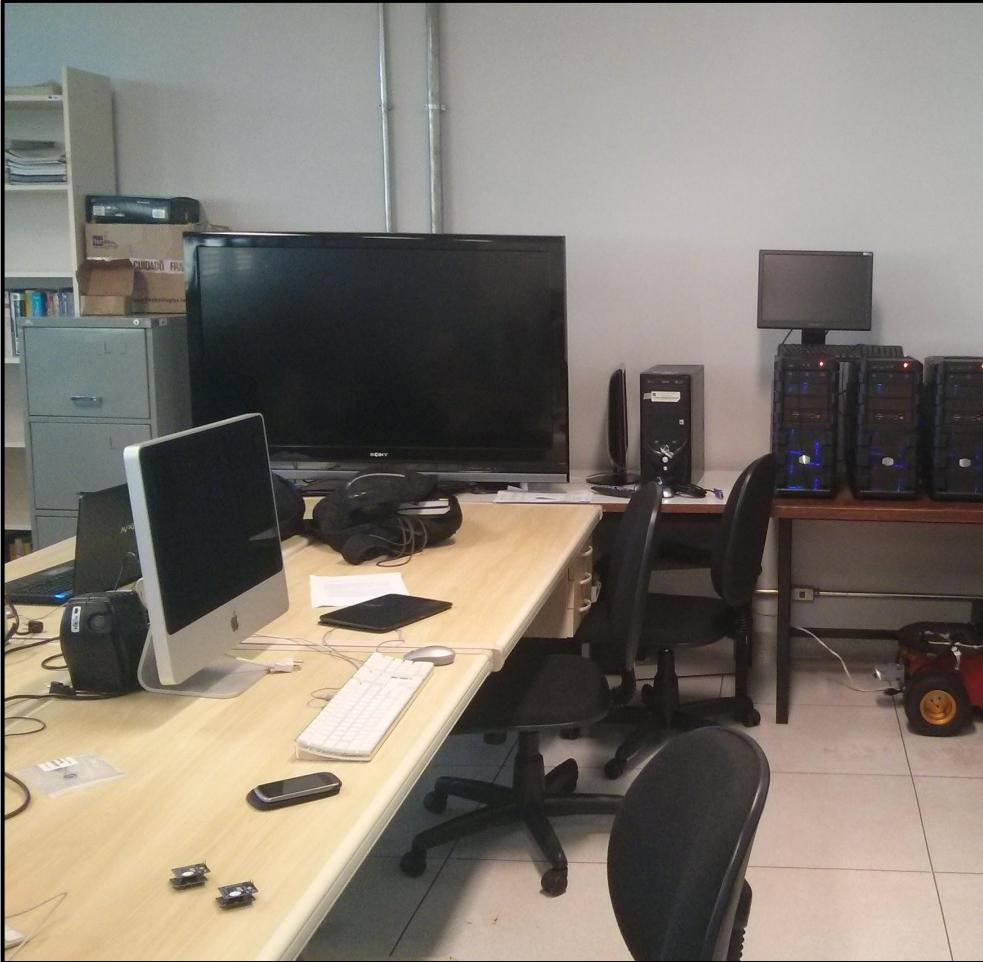


The background of the image features a large, bright yellow sun positioned in the upper left quadrant, casting a warm glow over a dark silhouette of bare trees in the foreground.

# DSOA

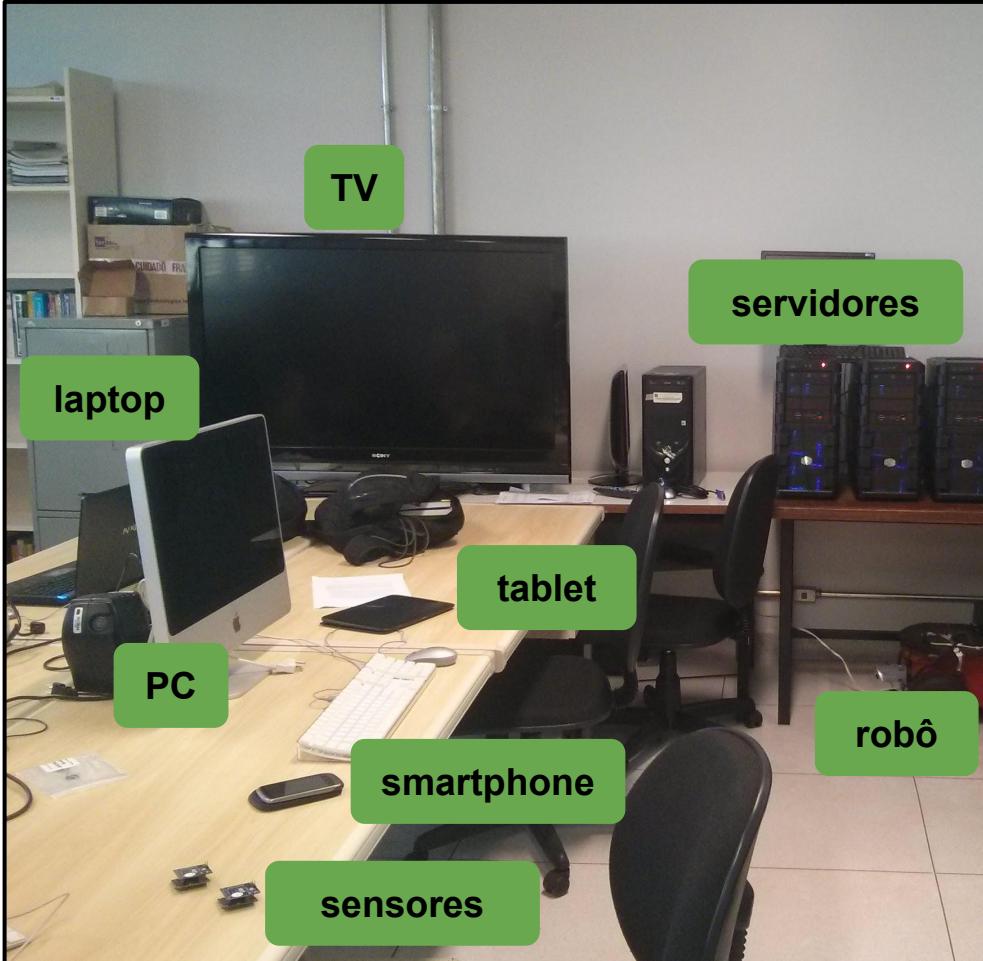
Ambiente  
Inteligente

Ambiente  
Inteligente

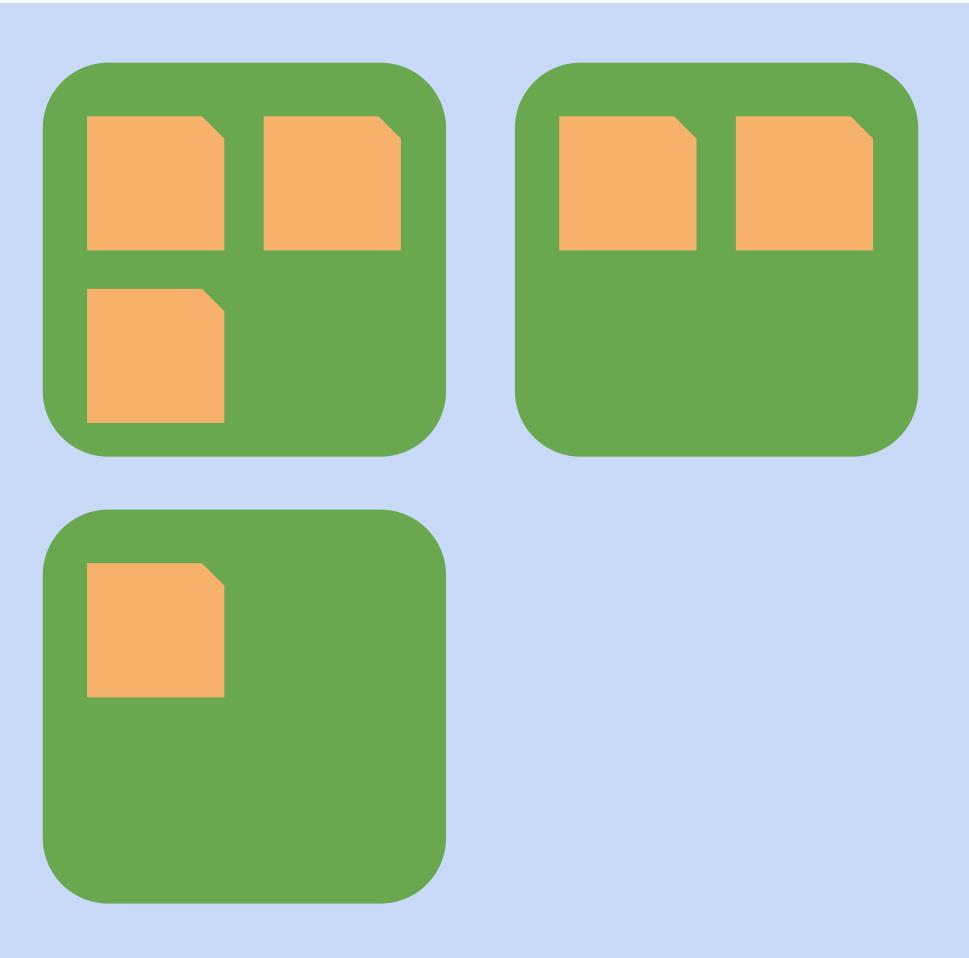


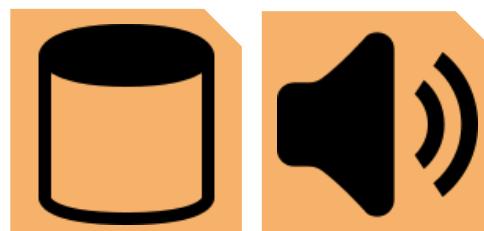
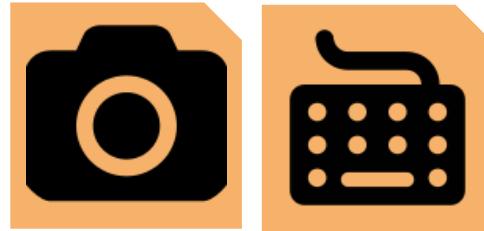
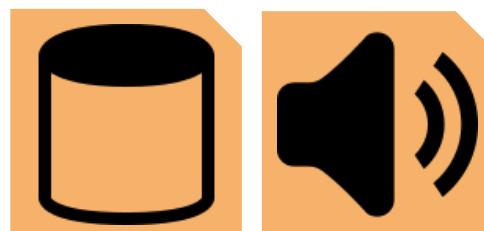
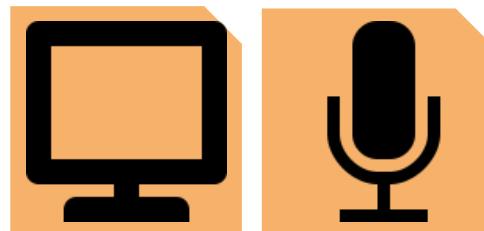
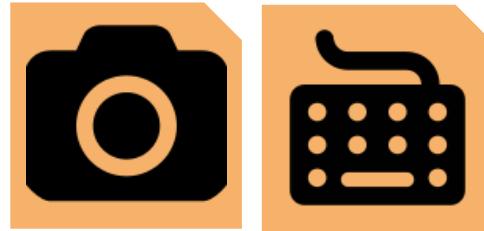
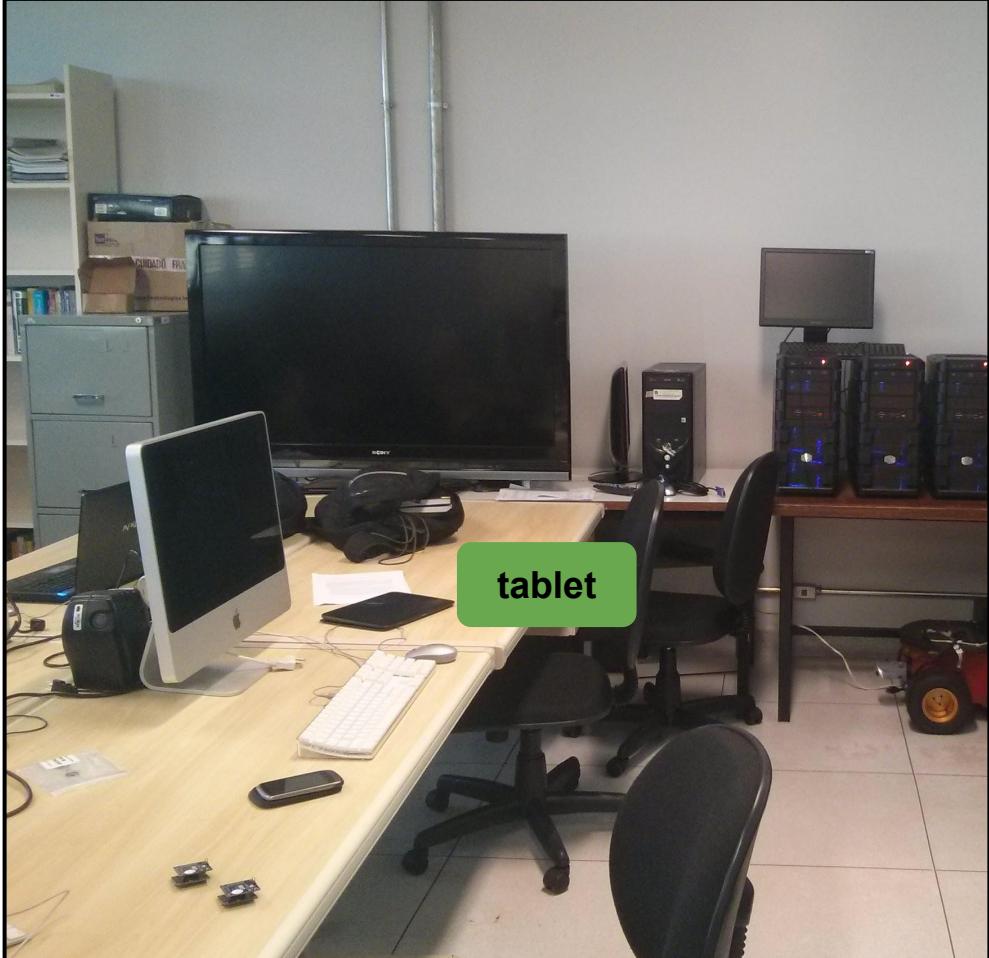
**Dispositivo**

# Ambiente Inteligente



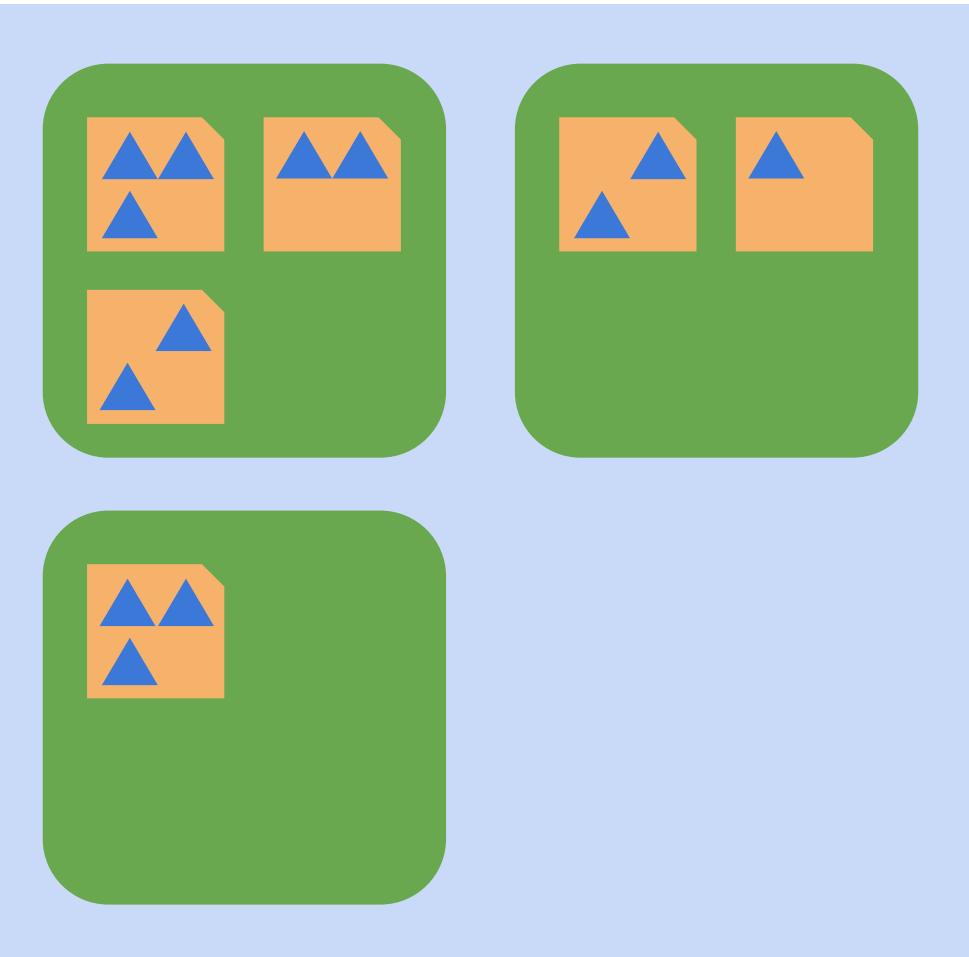
# Recurso





Recurso

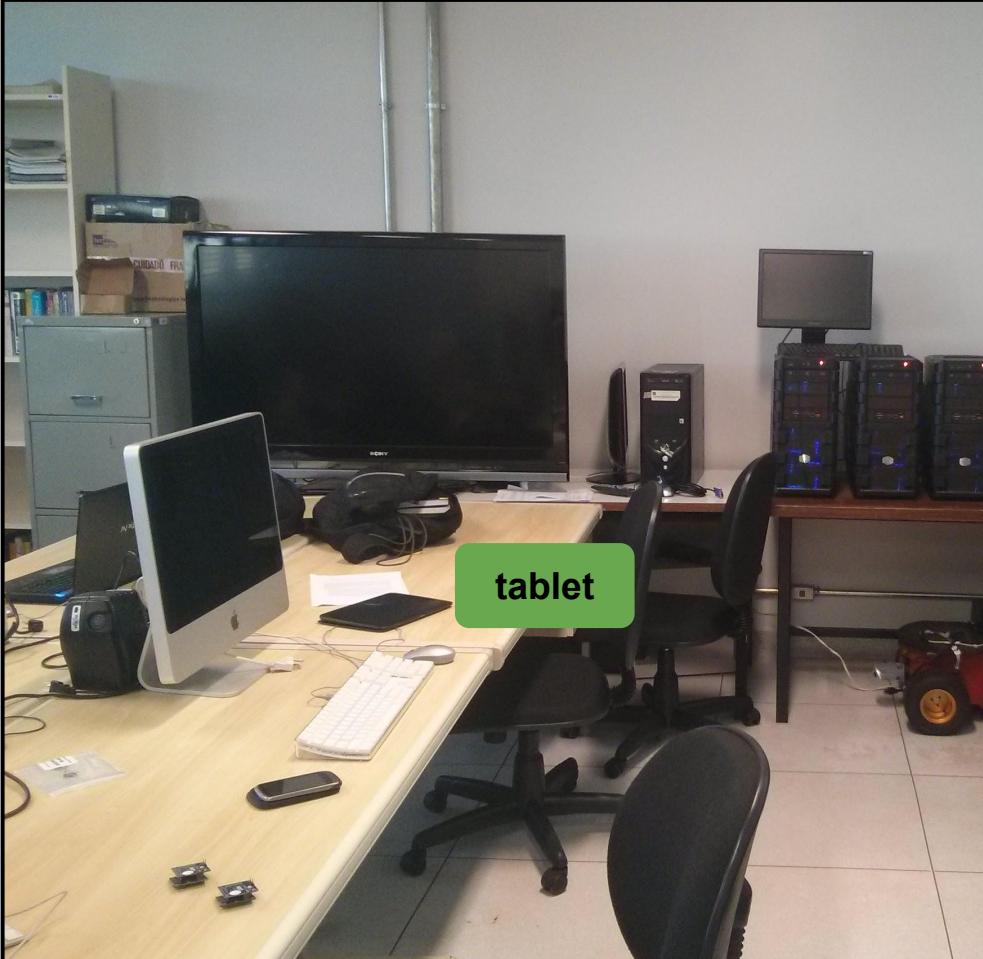
# Serviço



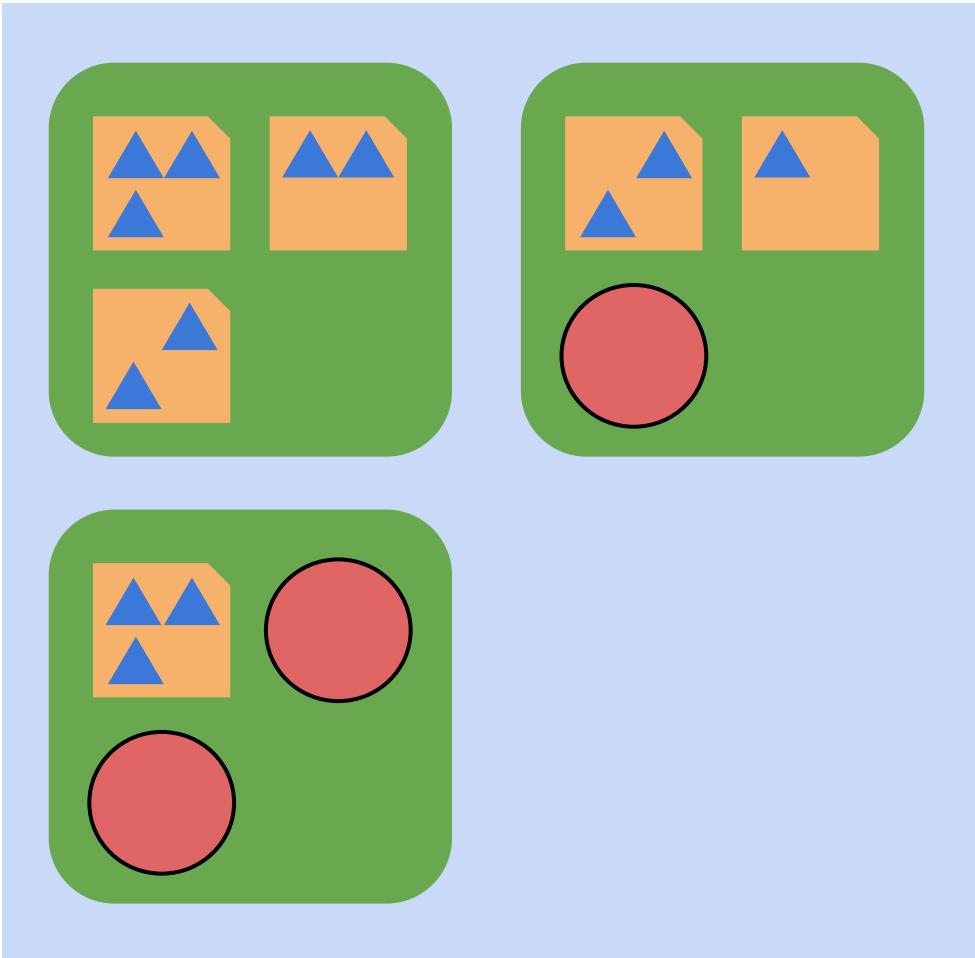
# serviço



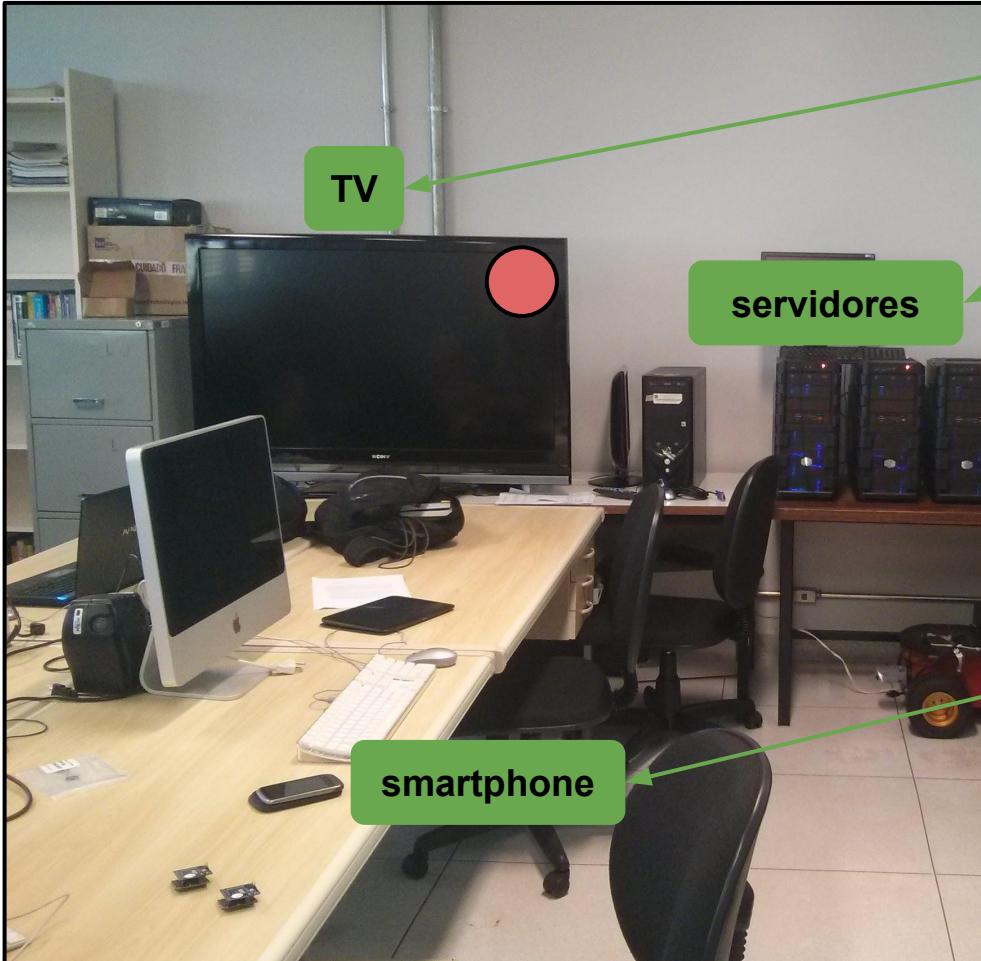
- ▲ Tirar foto
- ▲ Gravar Vídeo
- ▲ Transmitir Live Stream
- ▲ Detecção de Movimento



# Aplicação



# Aplicação

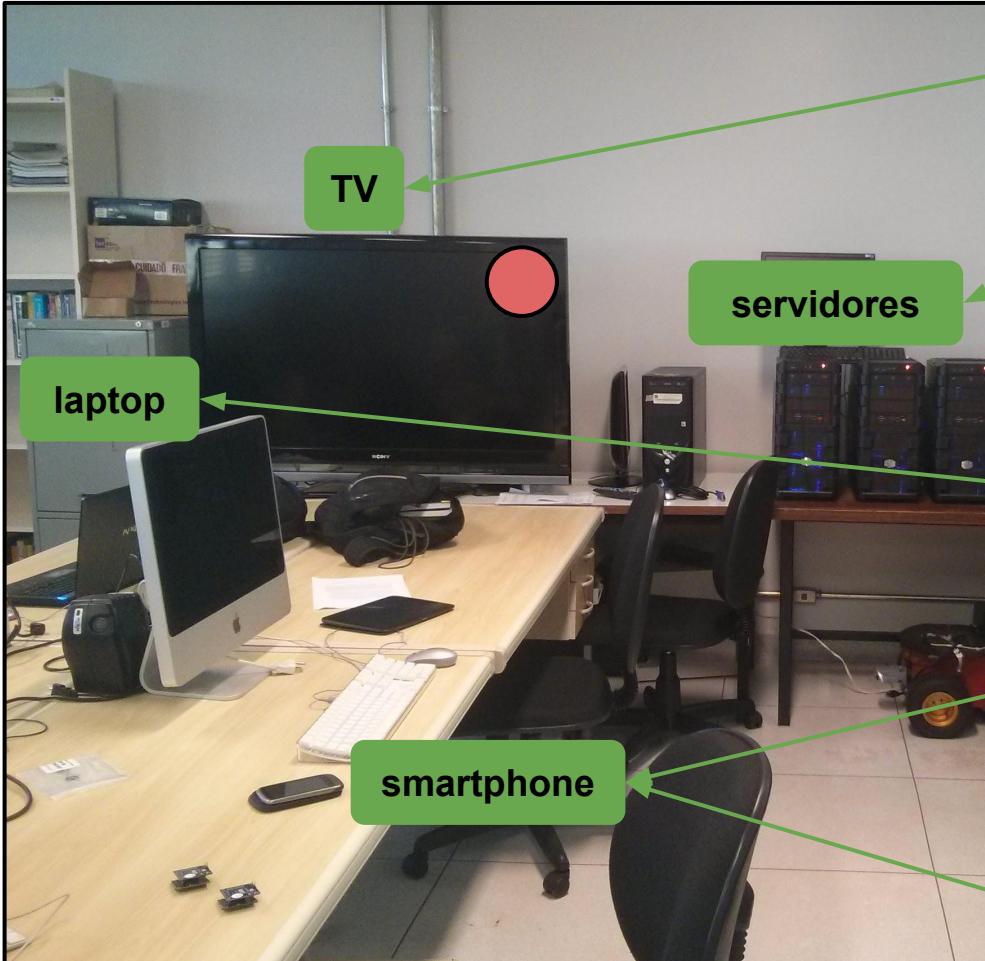


Tela

Informações

Perfil de Usuário

# Aplicação



Tela

Agenda

Apresentação

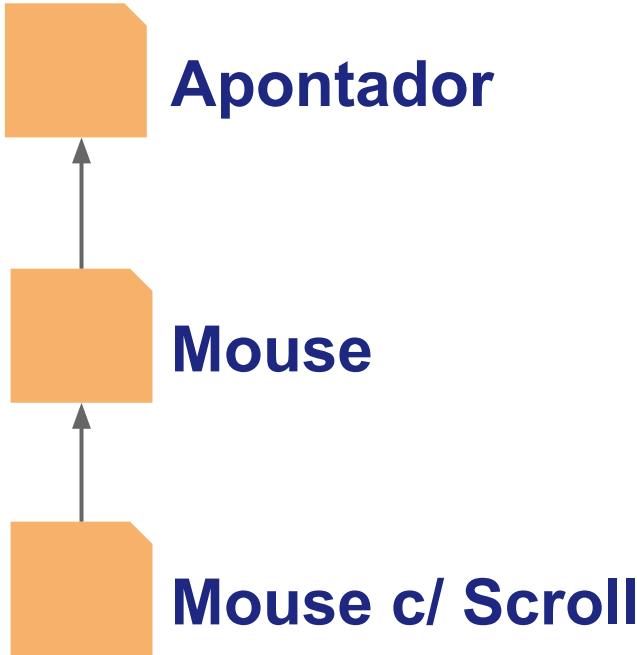
Perfil de Usuário

Mouse

# Equivalência

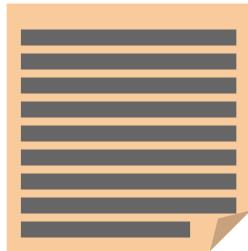
Apontador

# Equivaleñcia



# Comunicação

## Tipo de Tráfego



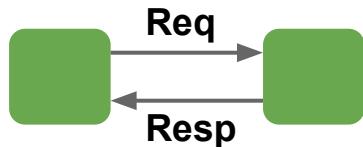
Mensagens Discretas



Dados Contínuos

# Comunicação

## Forma de Interação



Síncronos



Assíncronos



# Ubiquitous Protocols

```
{  
    "name": "Pah_w580i",  
    "networks": [  
        { "Bluetooth": "001F81000250" }  
    ]  
}
```





{



    "name": "nokia.webcam.ns60",  
    "services": [ . . . ],  
    "events": [ . . . ]



}



```
{
```



```
  "name": "snapshot",  
  "parameters": {  
    "width": "MANDATORY",  
    "height": "MANDATORY",  
    "encoding": "OPTIONAL"  
  }
```



```
}
```

# Service Call

# Service Response

# Notify

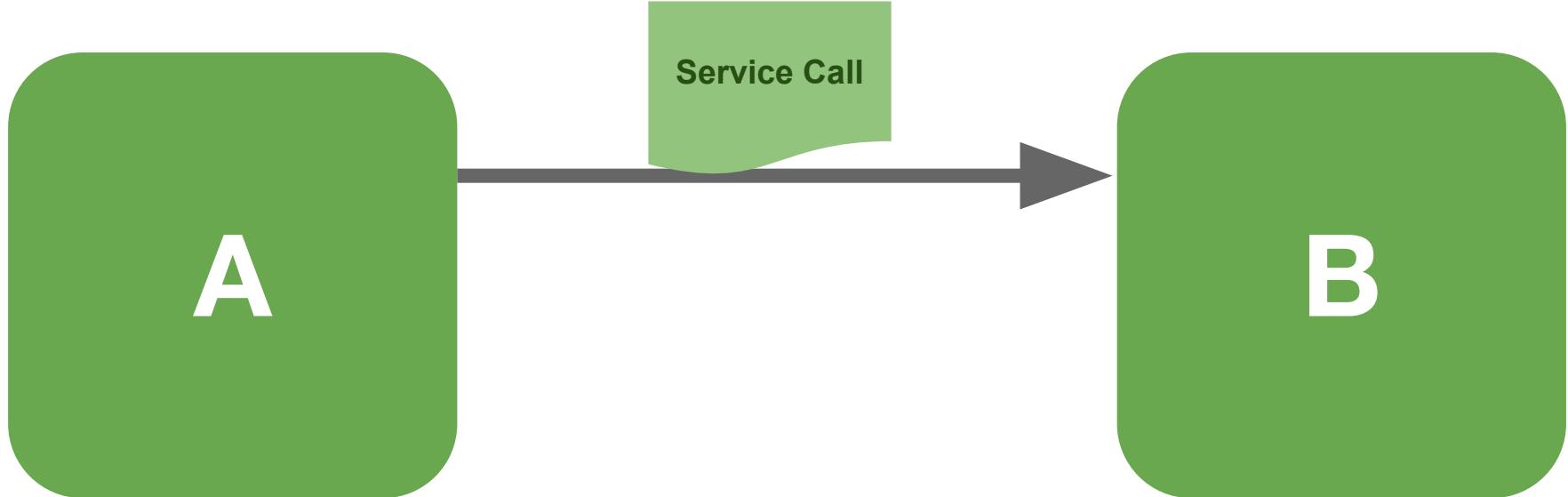
# Encapsulated Message

SCP

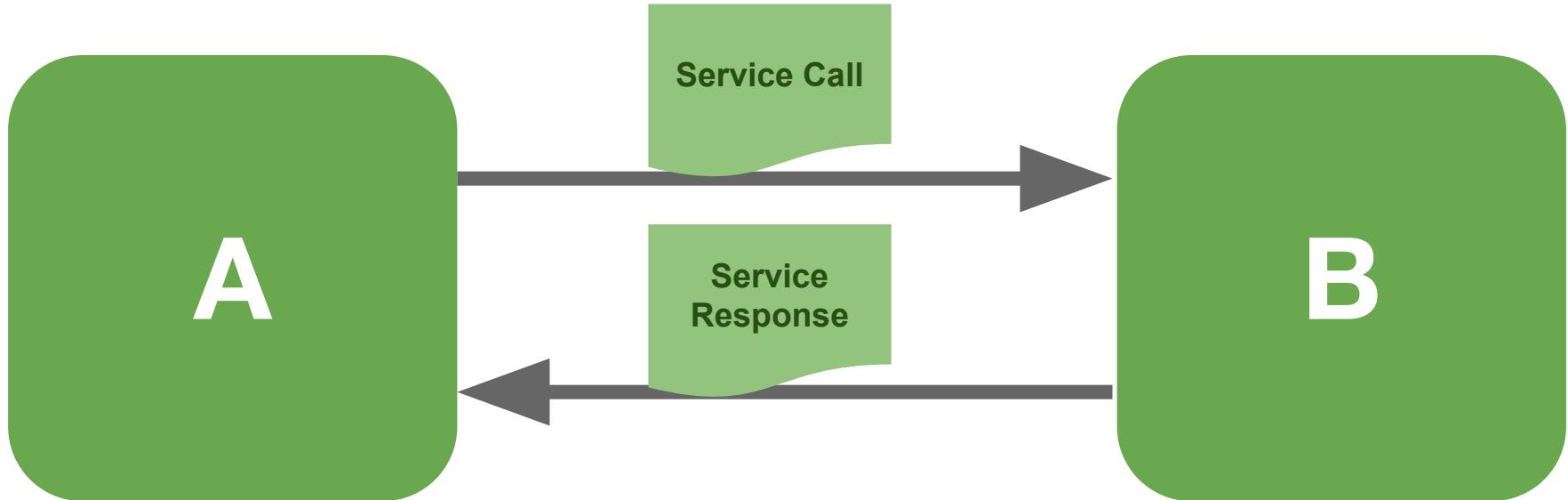
A

B

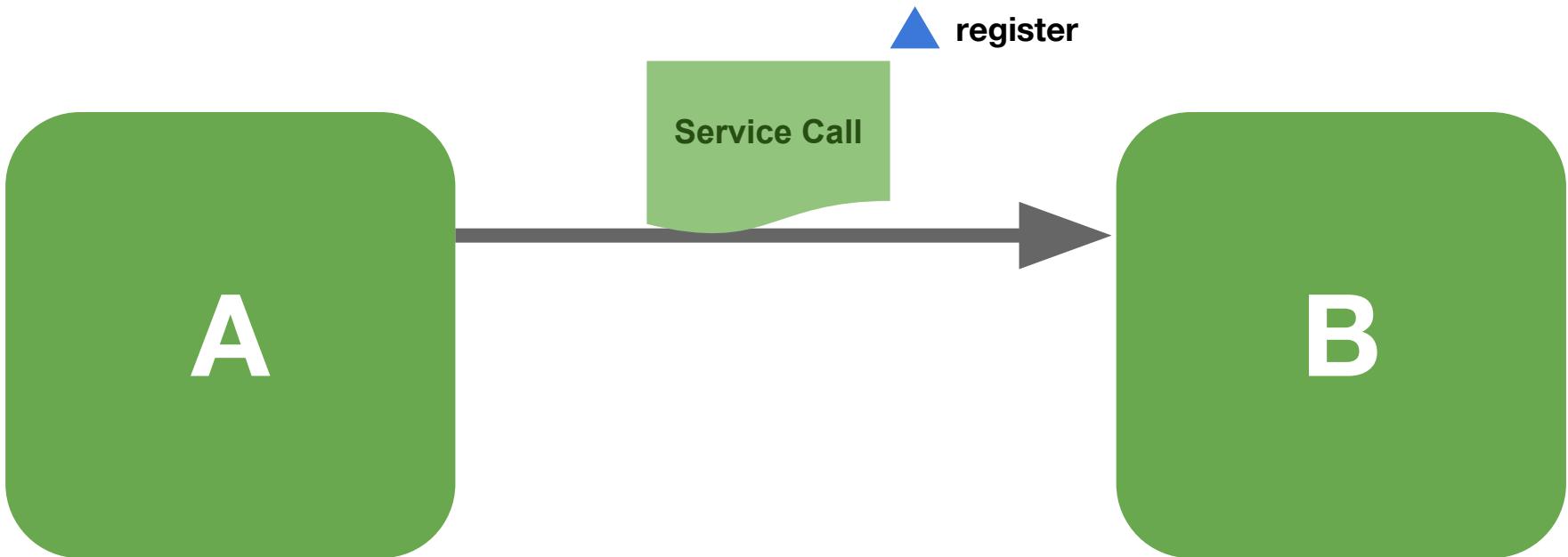
**SCP**



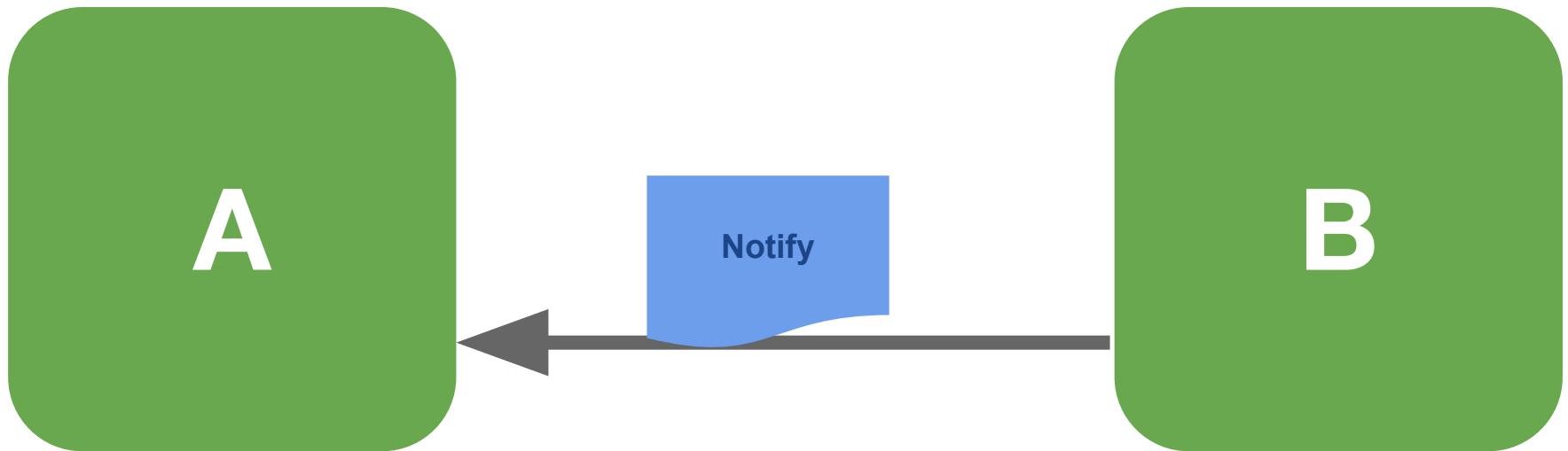
**SCP**



EVP



EVP



Base

SCP

EVP

Base

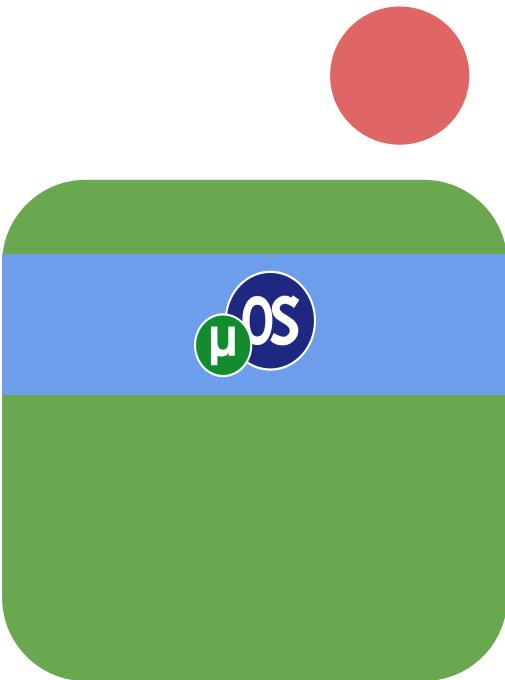
SCP

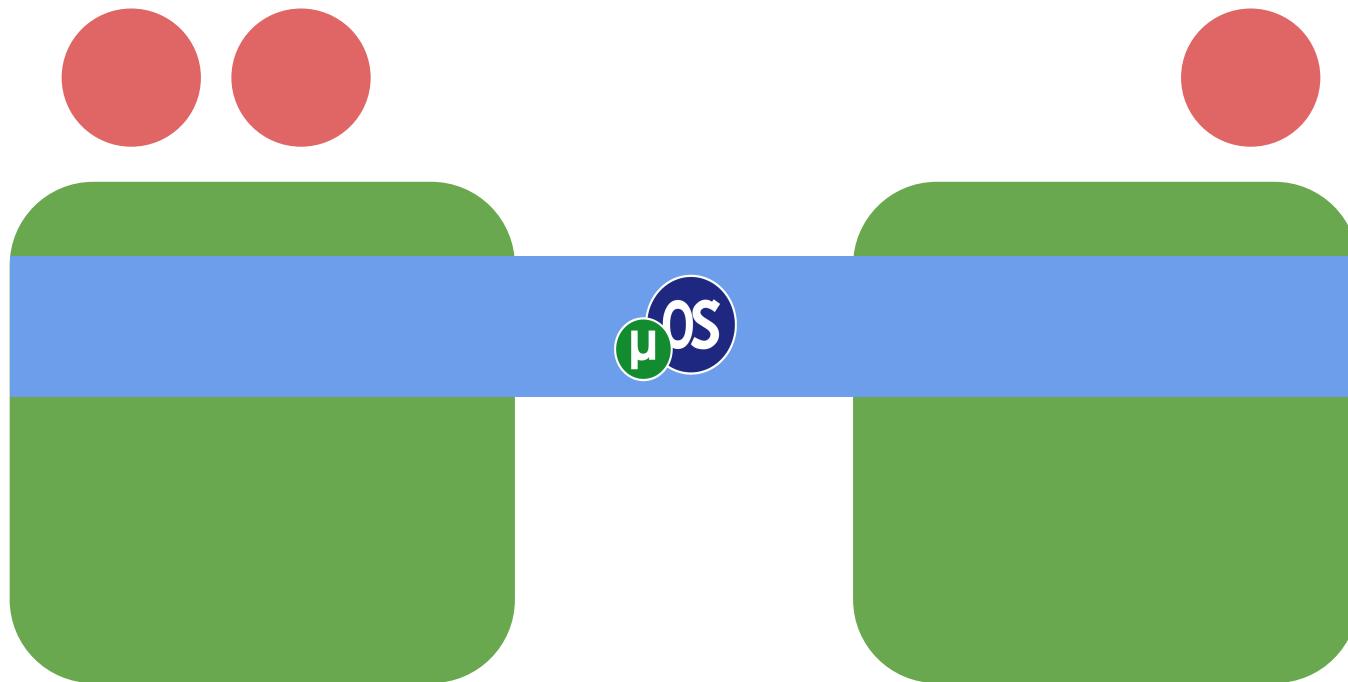
EVP

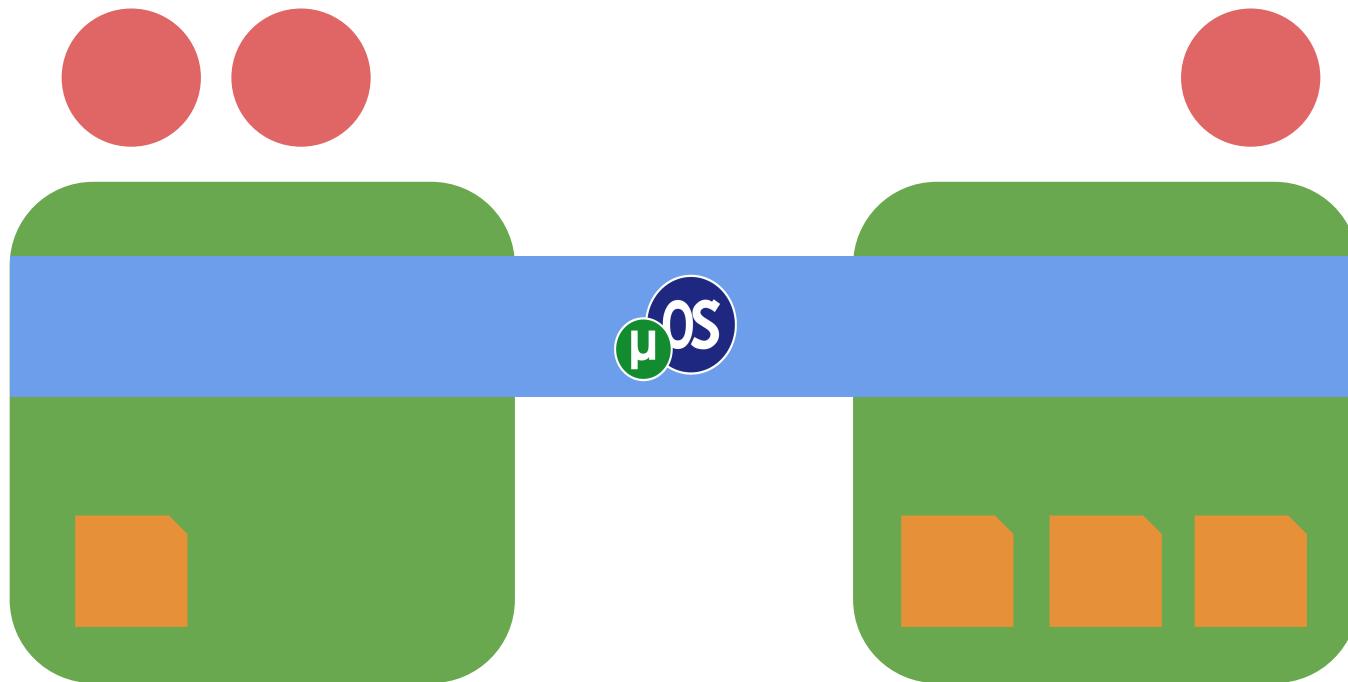
Complementares

Device

Register







## Aplicações

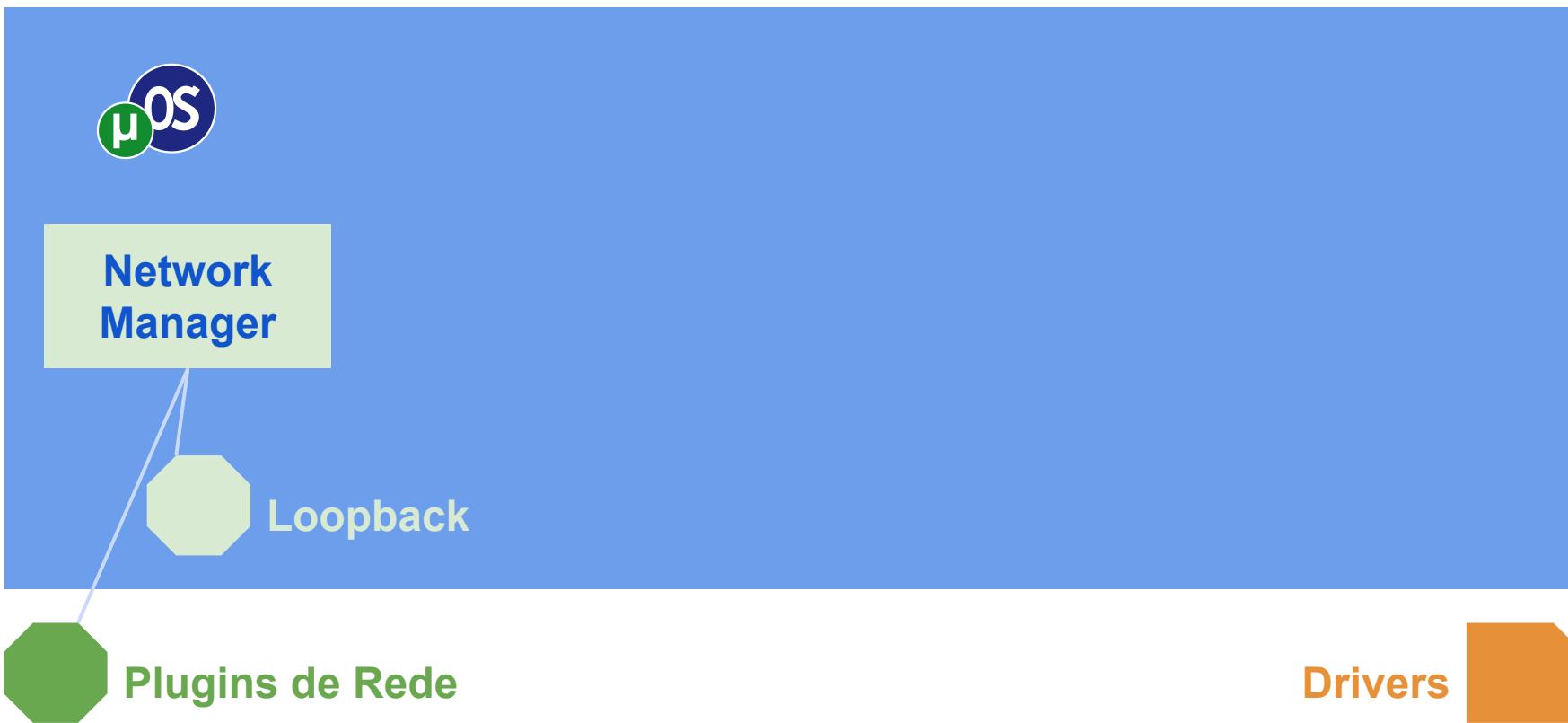


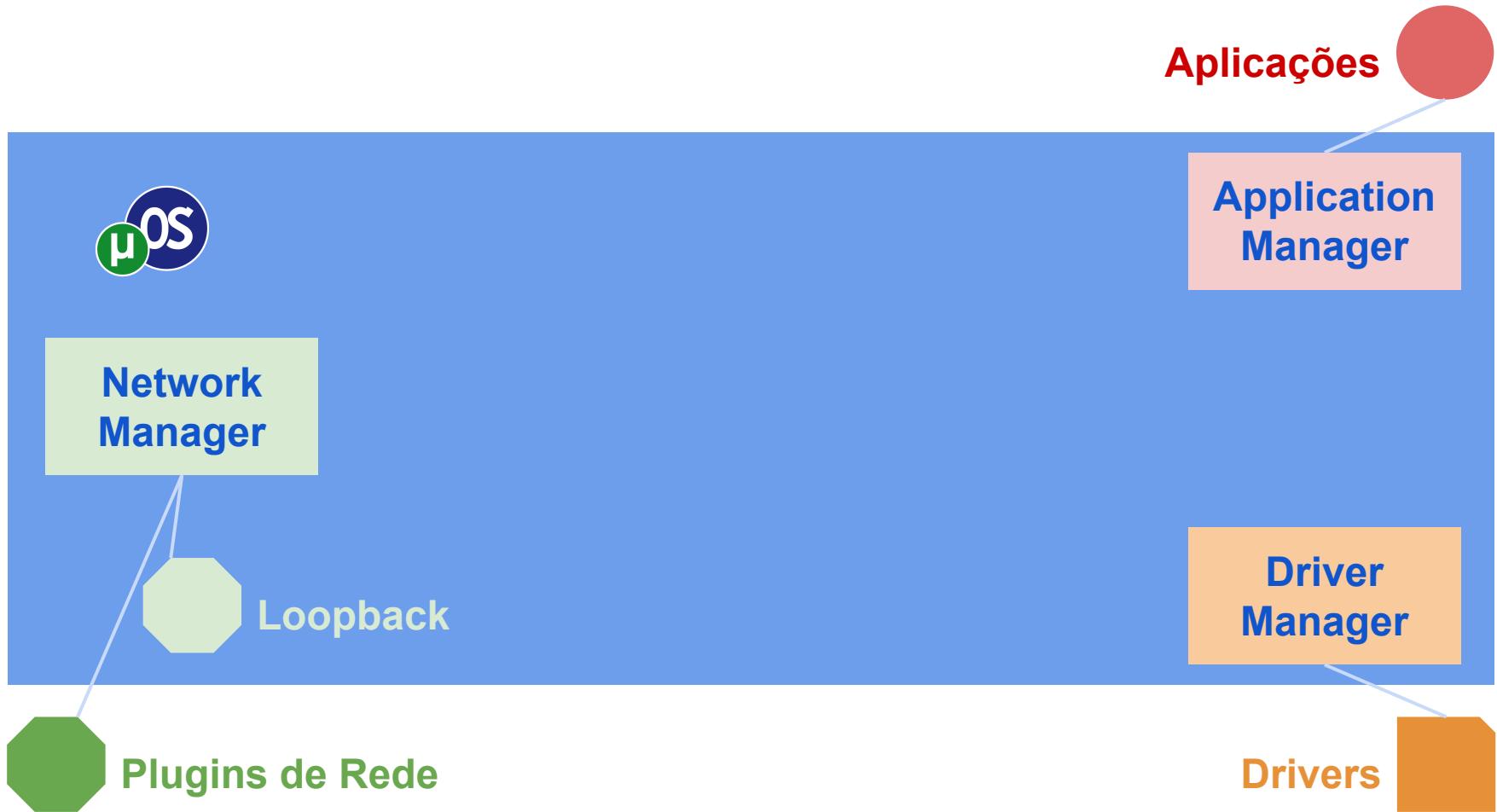
Plugins de Rede

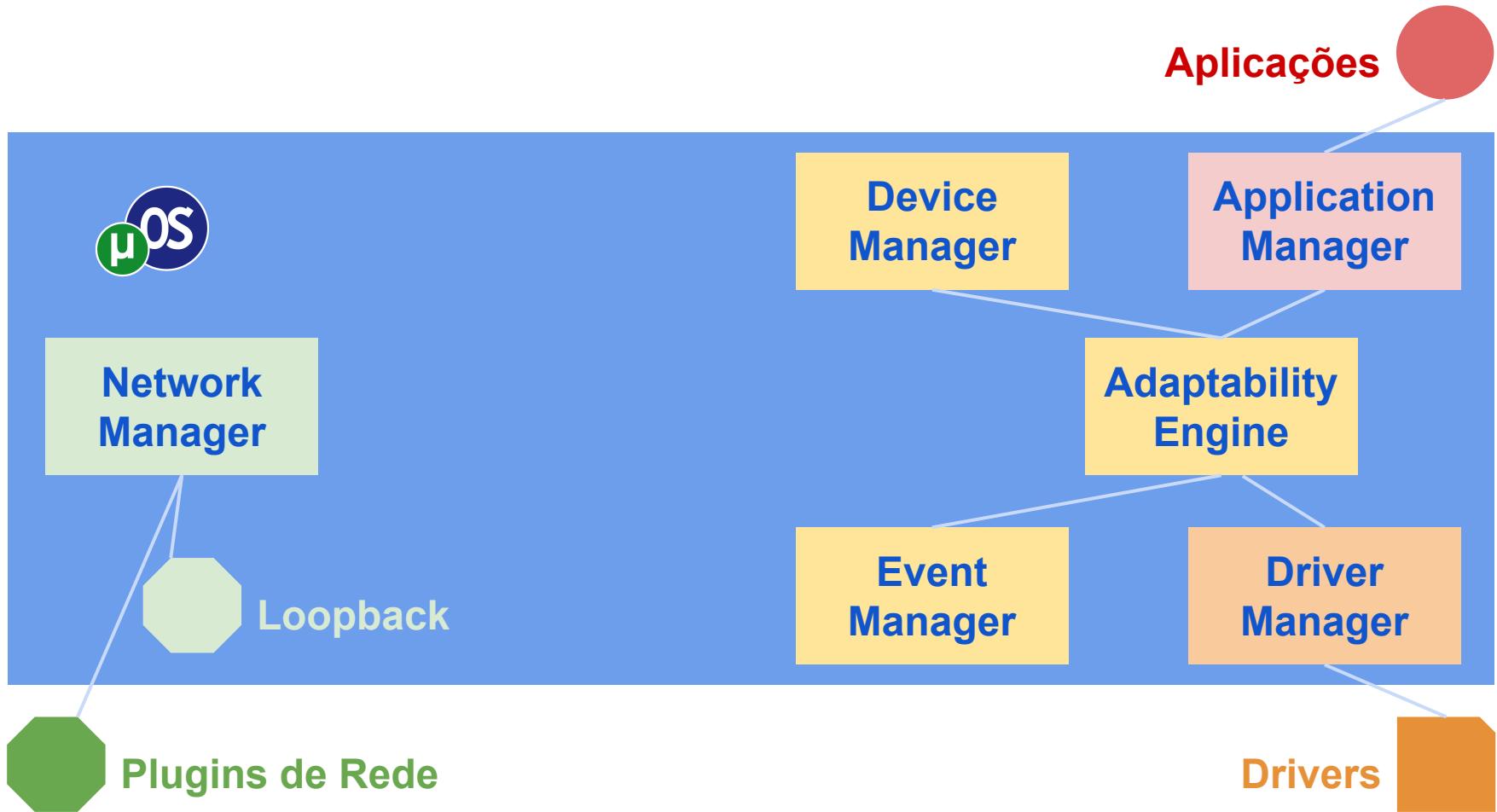
Drivers

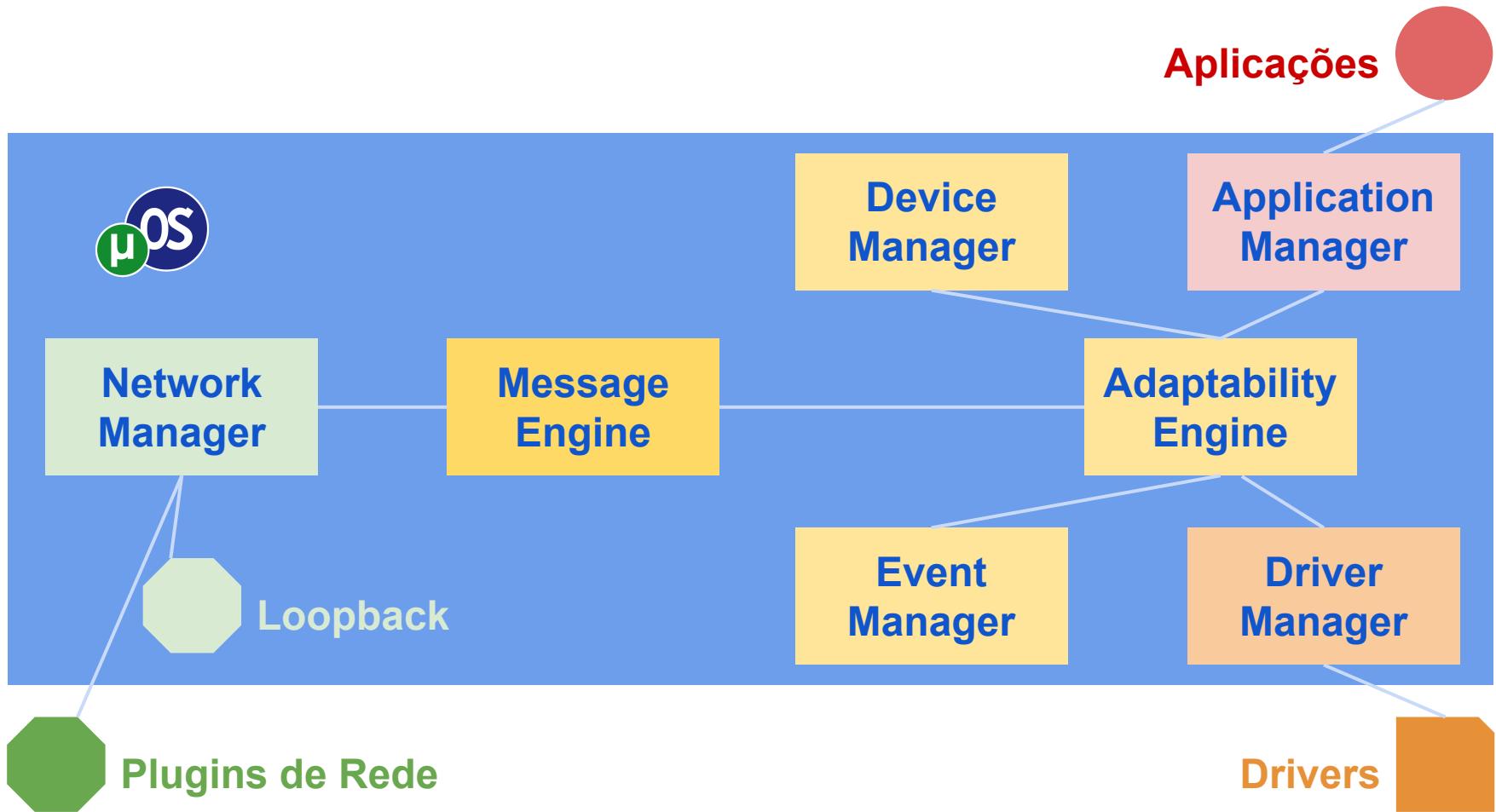


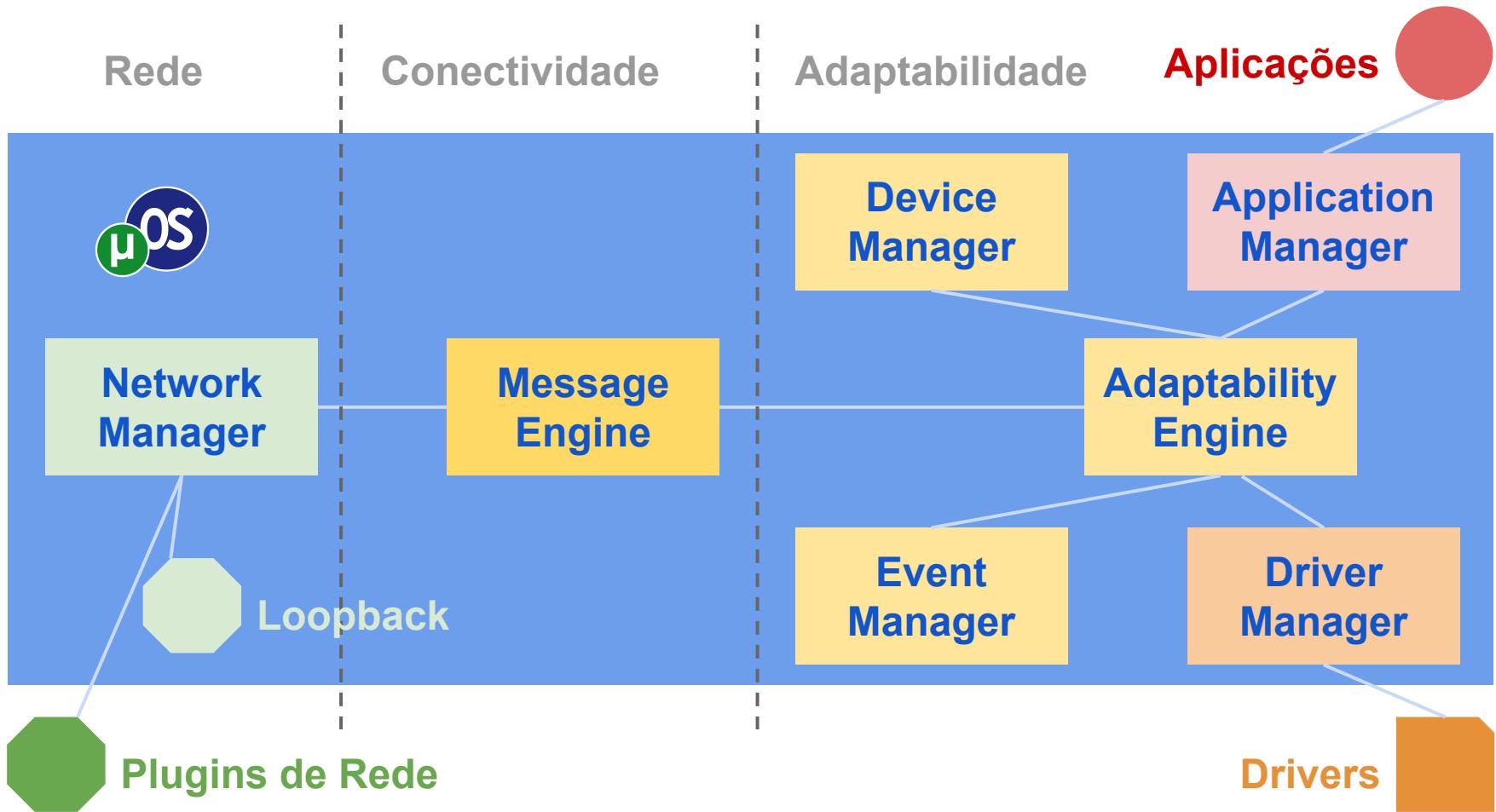
Aplicações

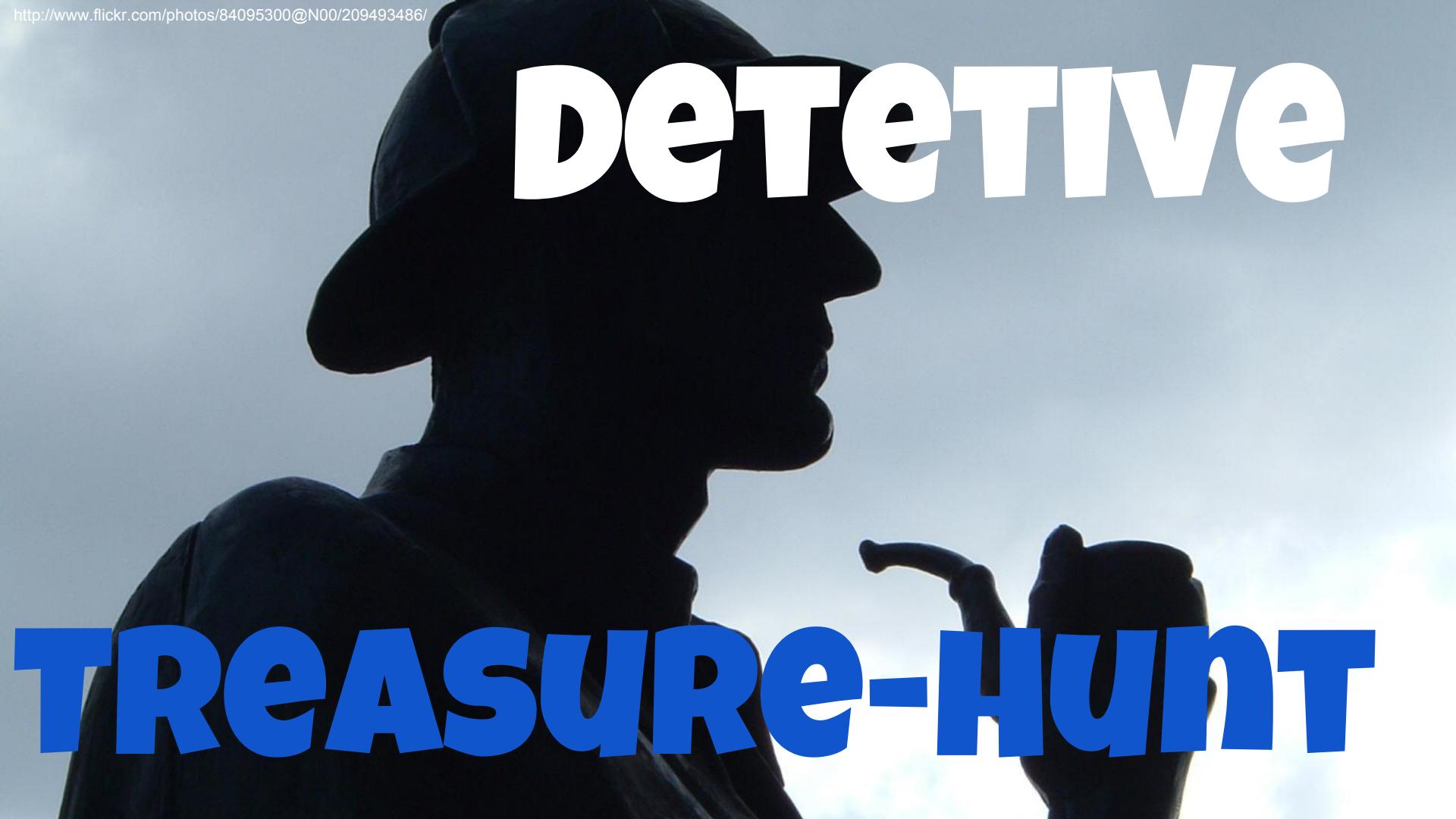










A black silhouette of a man's head and shoulders, facing right. He wears a fedora hat and a trench coat, and holds a cane in his left hand.

DETECTIVE

TREASURE-HUNT

# Ambiente

Biblioteca

Cozinha

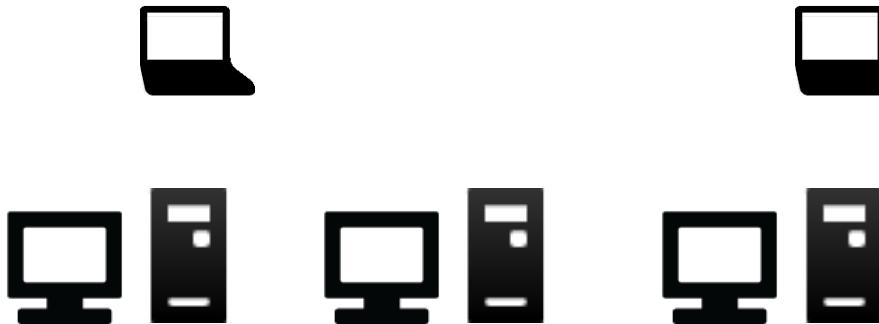
Hall



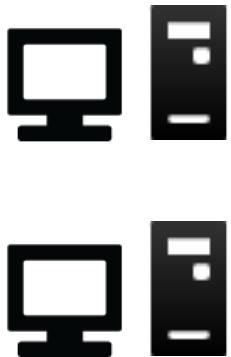
Sala de Estar

# Ambiente

Salão de Jogos



Garagem





Coronel  
Mostarda

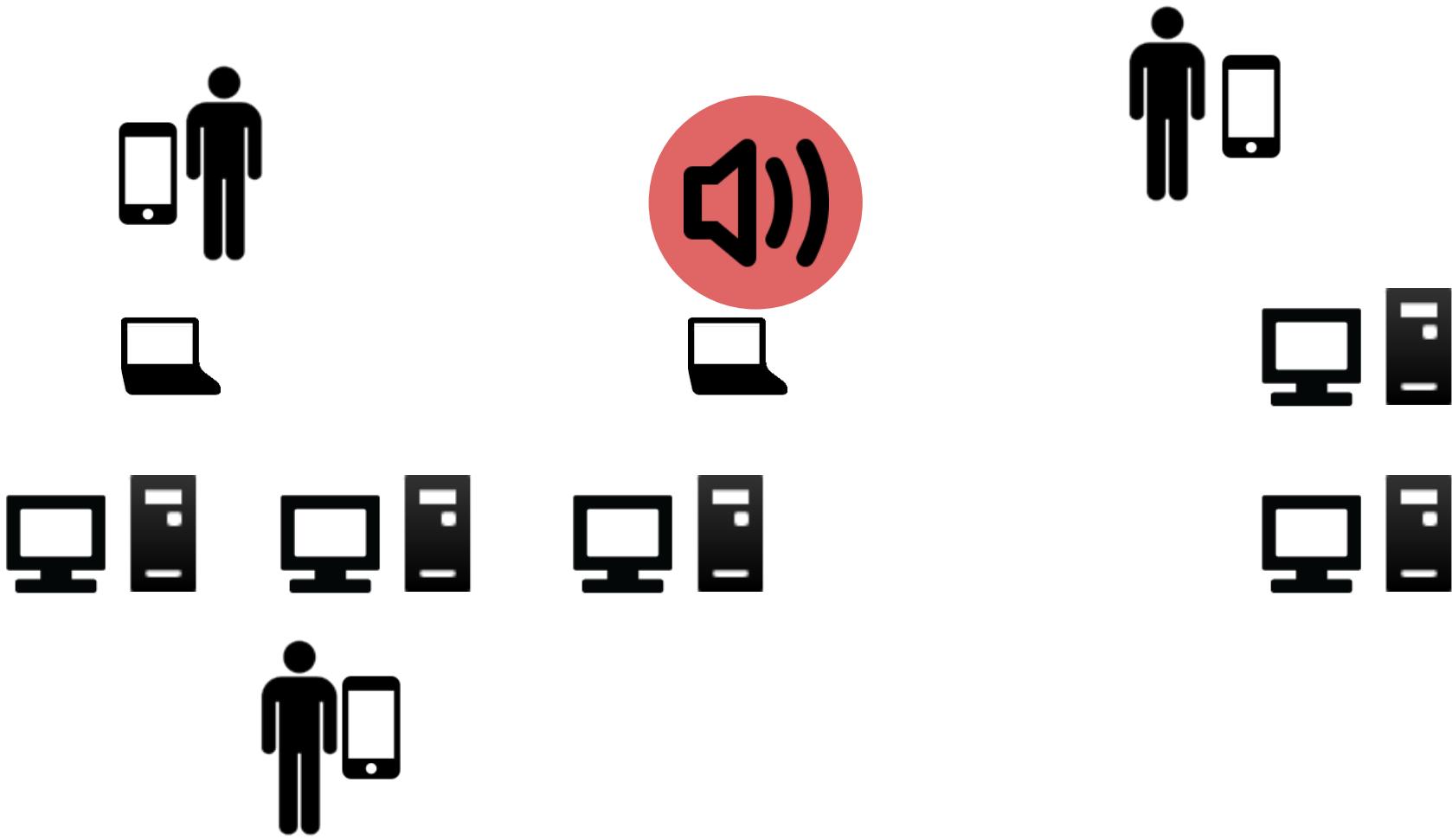
Professor  
Black

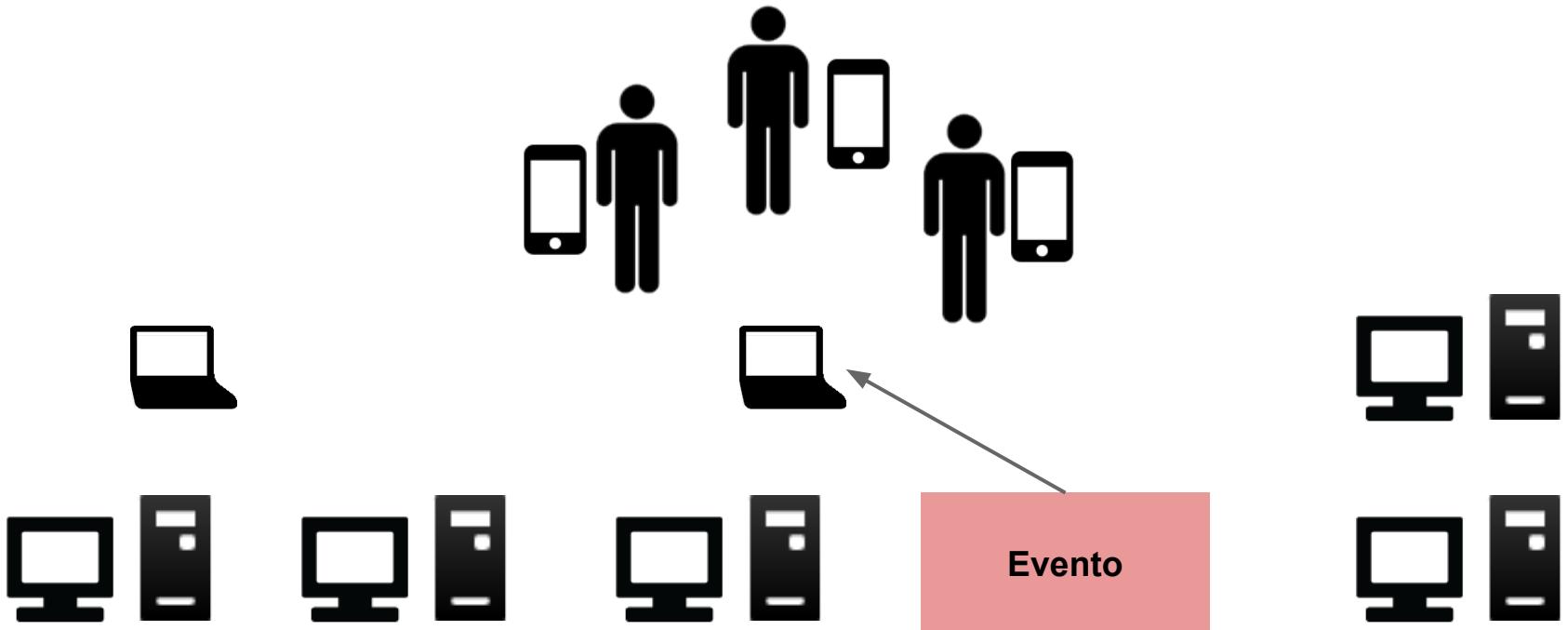


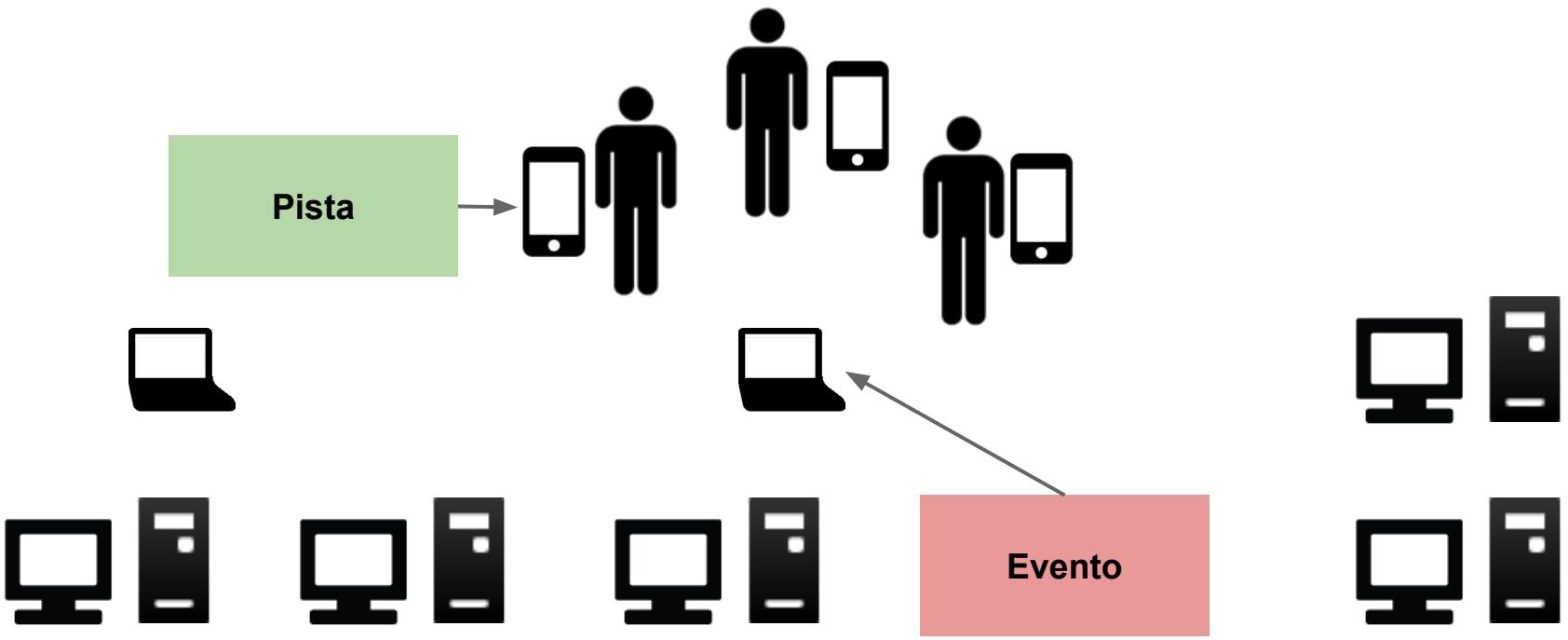
Senhor  
Marinho

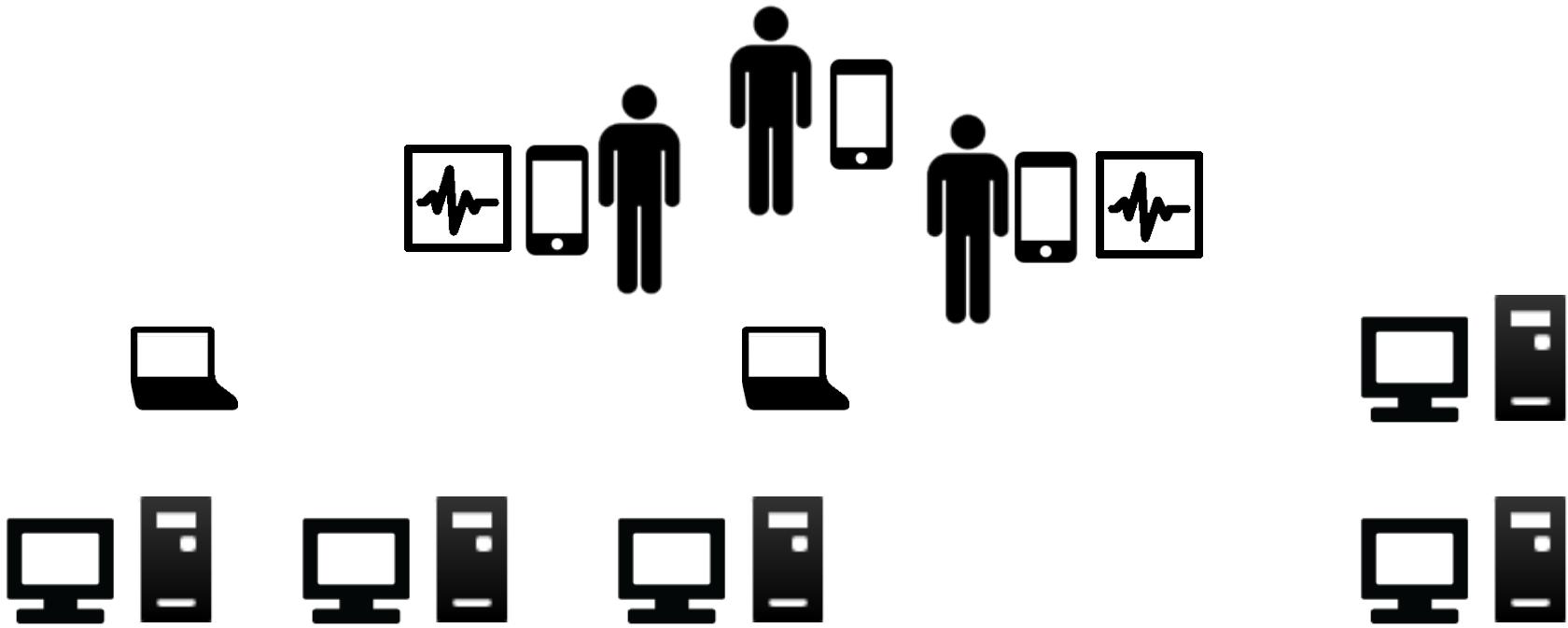


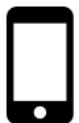
Personagens













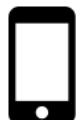
Console



Speaker

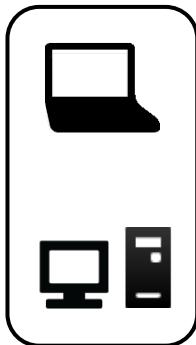


Console



Monitor BPM

Dados do Usuário



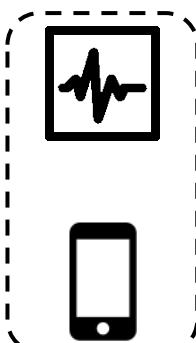
Console

Speaker

Console

Monitor BPM

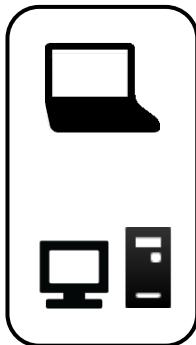
Dados do Usuário



Console

Saída de Texto

Entrada de Texto



Console

Speaker

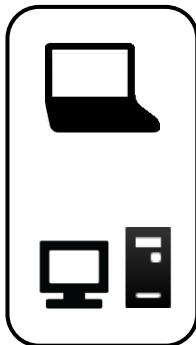
Console

Monitor BPM

Dados do Usuário

Speaker

△ Tocar Audio



Console

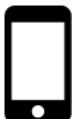


Speaker

Console



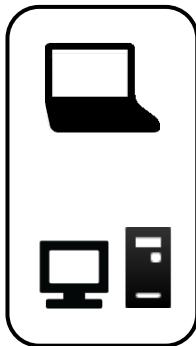
Monitor BPM



Dados do Usuário

Monitor BPM





Console

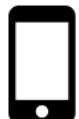


Speaker

Console



Monitor BPM

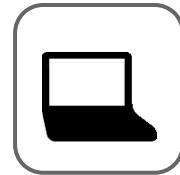
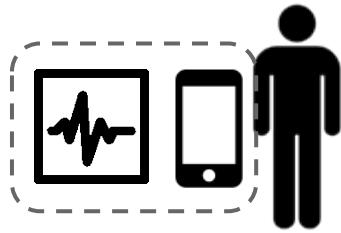


Dados do Usuário

Dados do Usuário



Identificação







**Fabricio  
Nogueira  
Buzeto**

**Ubizen**

# Tarefa?

Modelar seu jogo na  
plataforma.



Fabricio  
Nogueira

WIZEN