

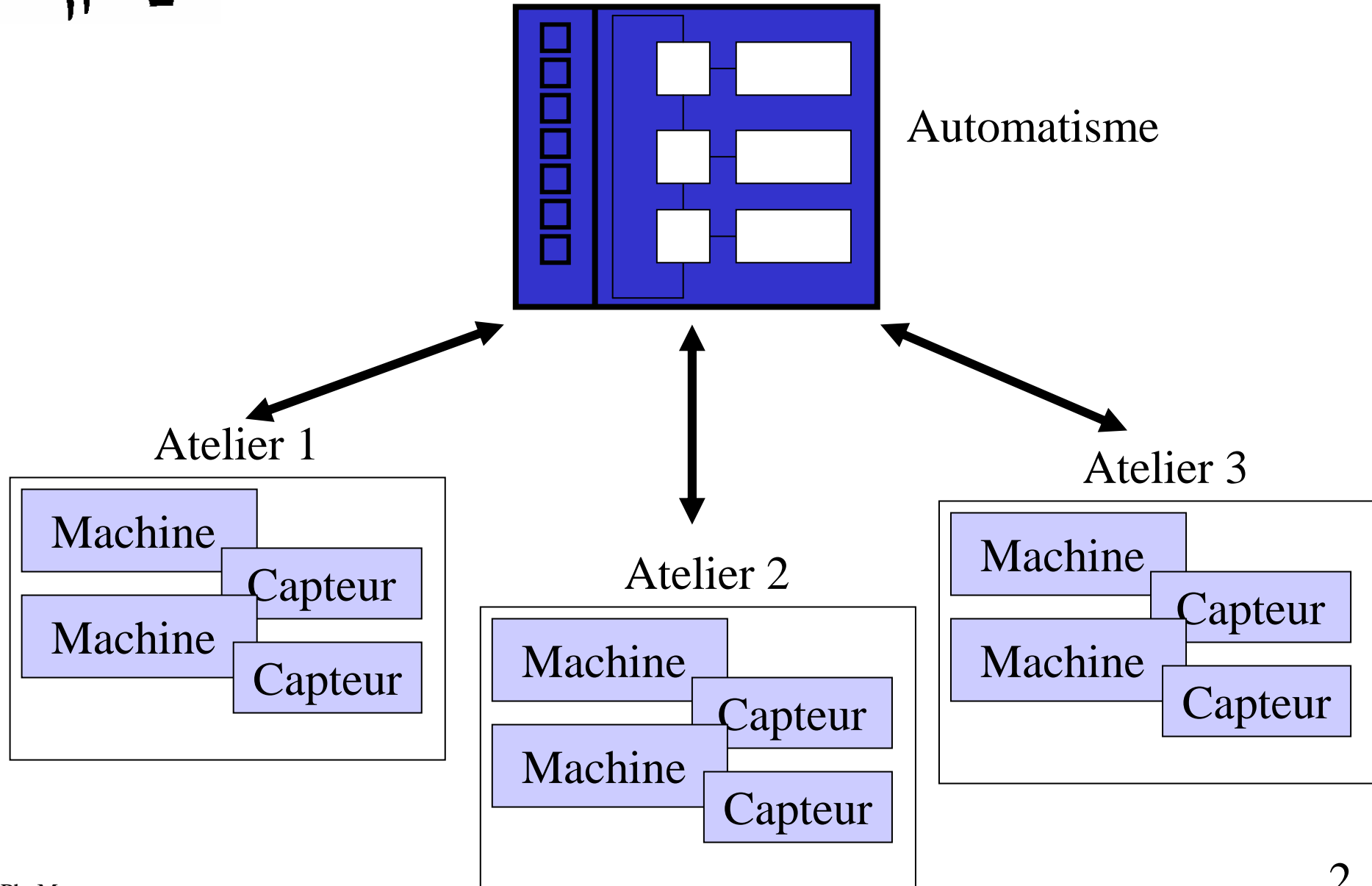
# Généralité sur les Réseaux locaux industriel



Ph. Meyne



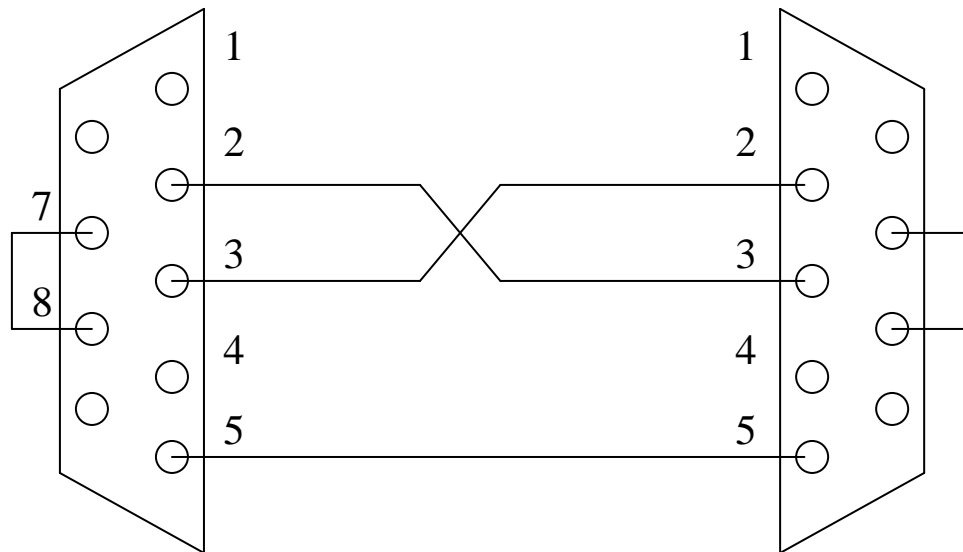
# Architecture centralisée





# Architecture centralisée

## Liaison série RS232

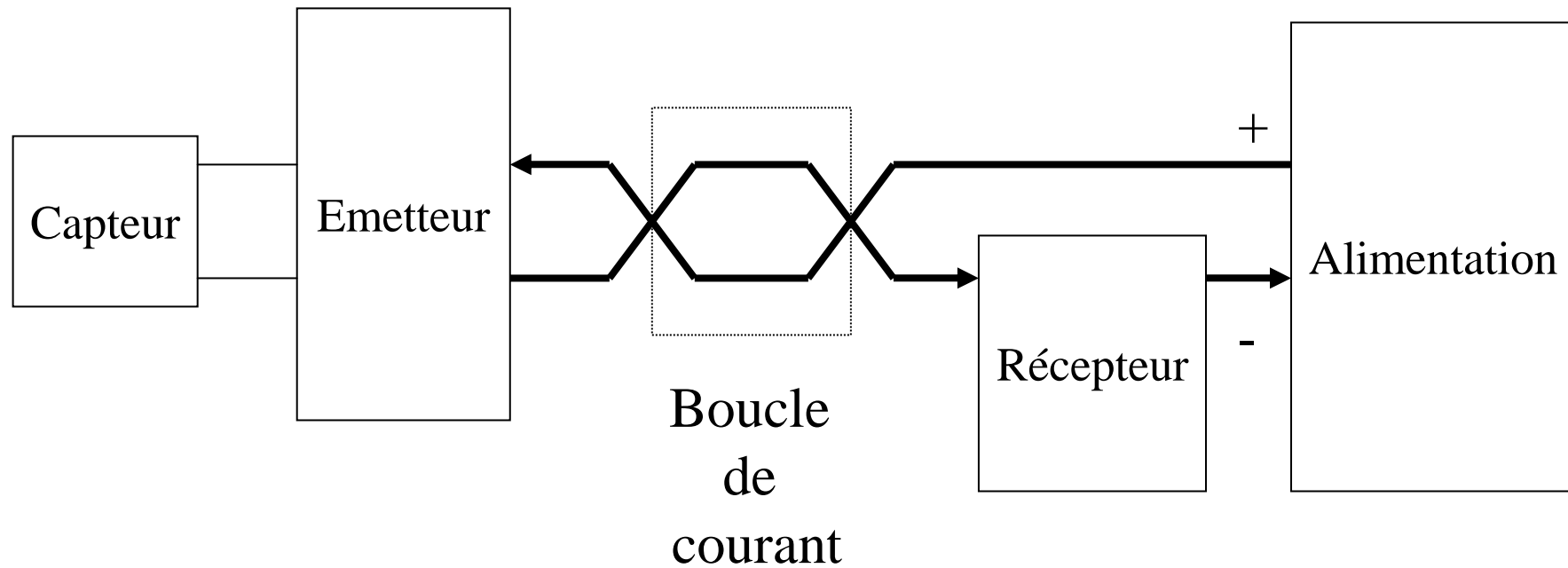


broche	signal
1	CD
2	RD
3	TD
4	DTR
5	SG
6	DSR
7	RTS
8	CTS
9	RI



# Architecture centralisée

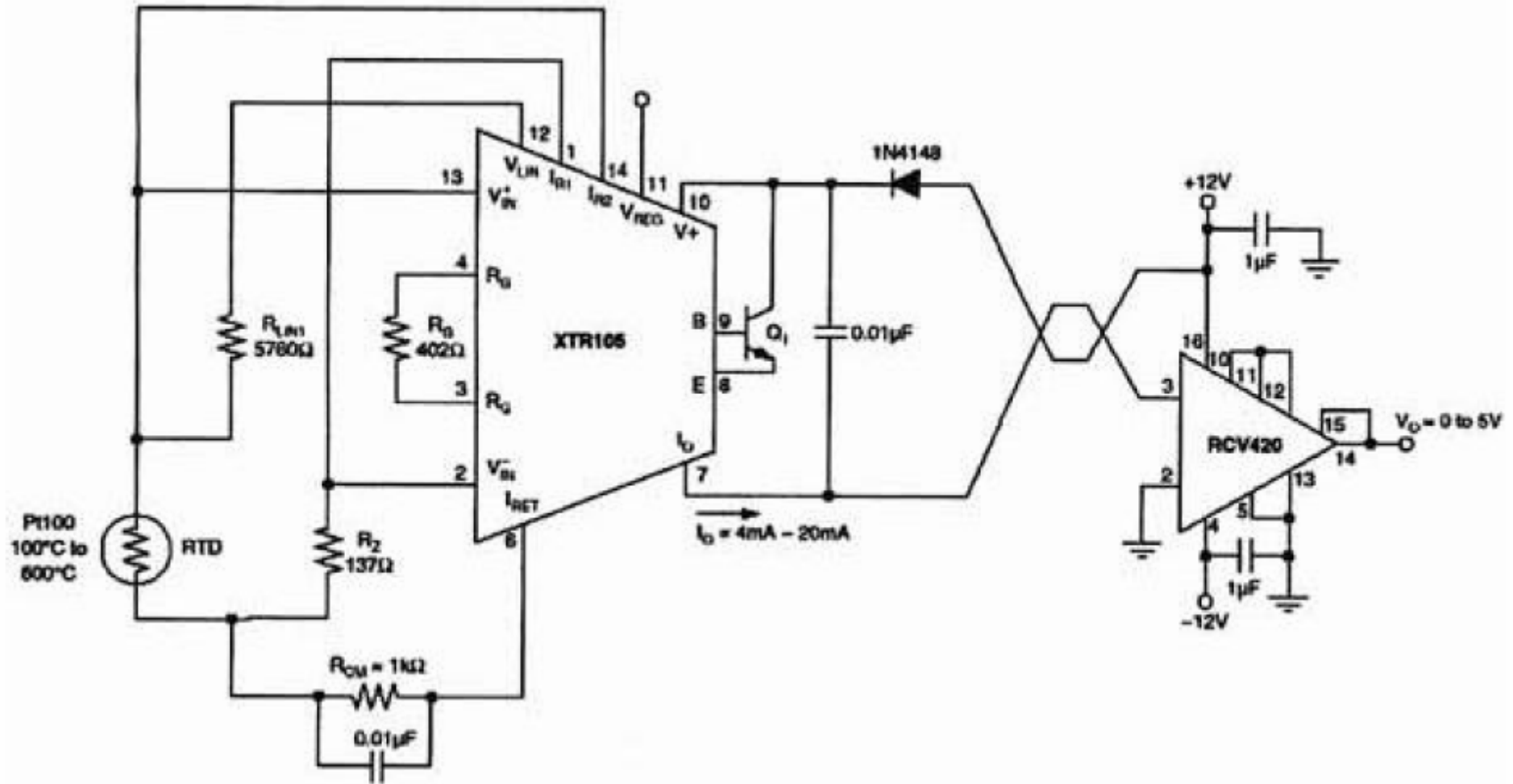
## Boucle de courant





# Architecture centralisée

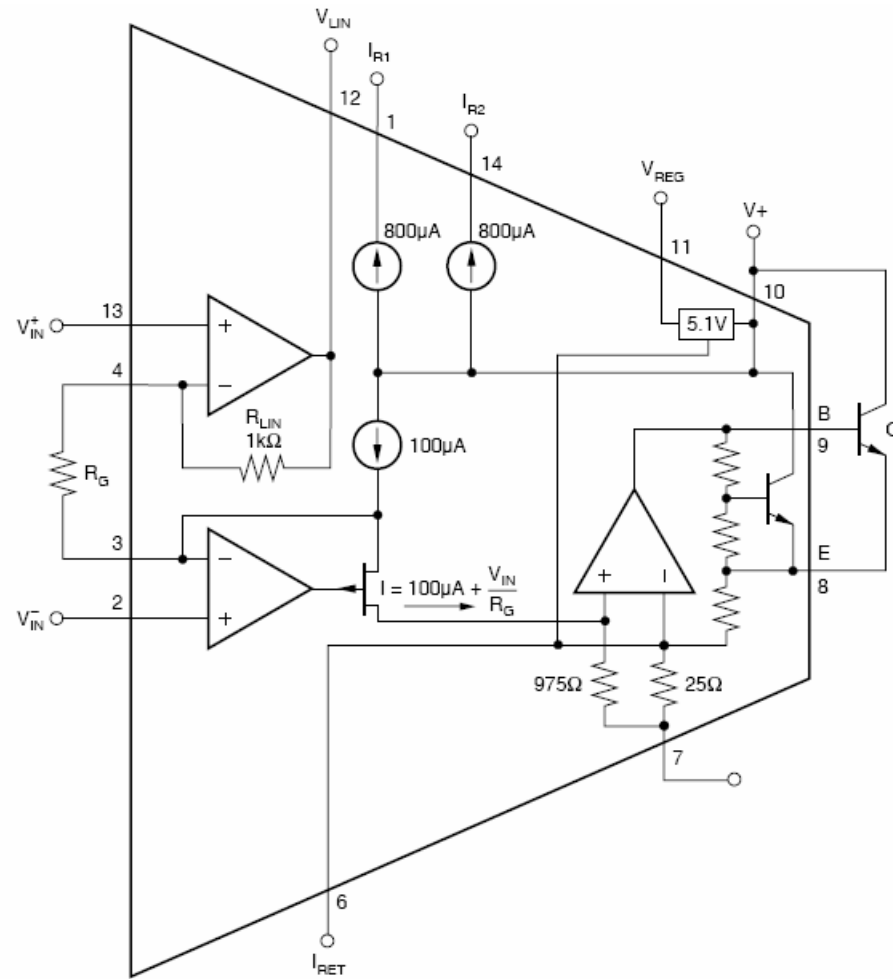
## Boucle de courant - Exemple d'application





# Architecture centralisée

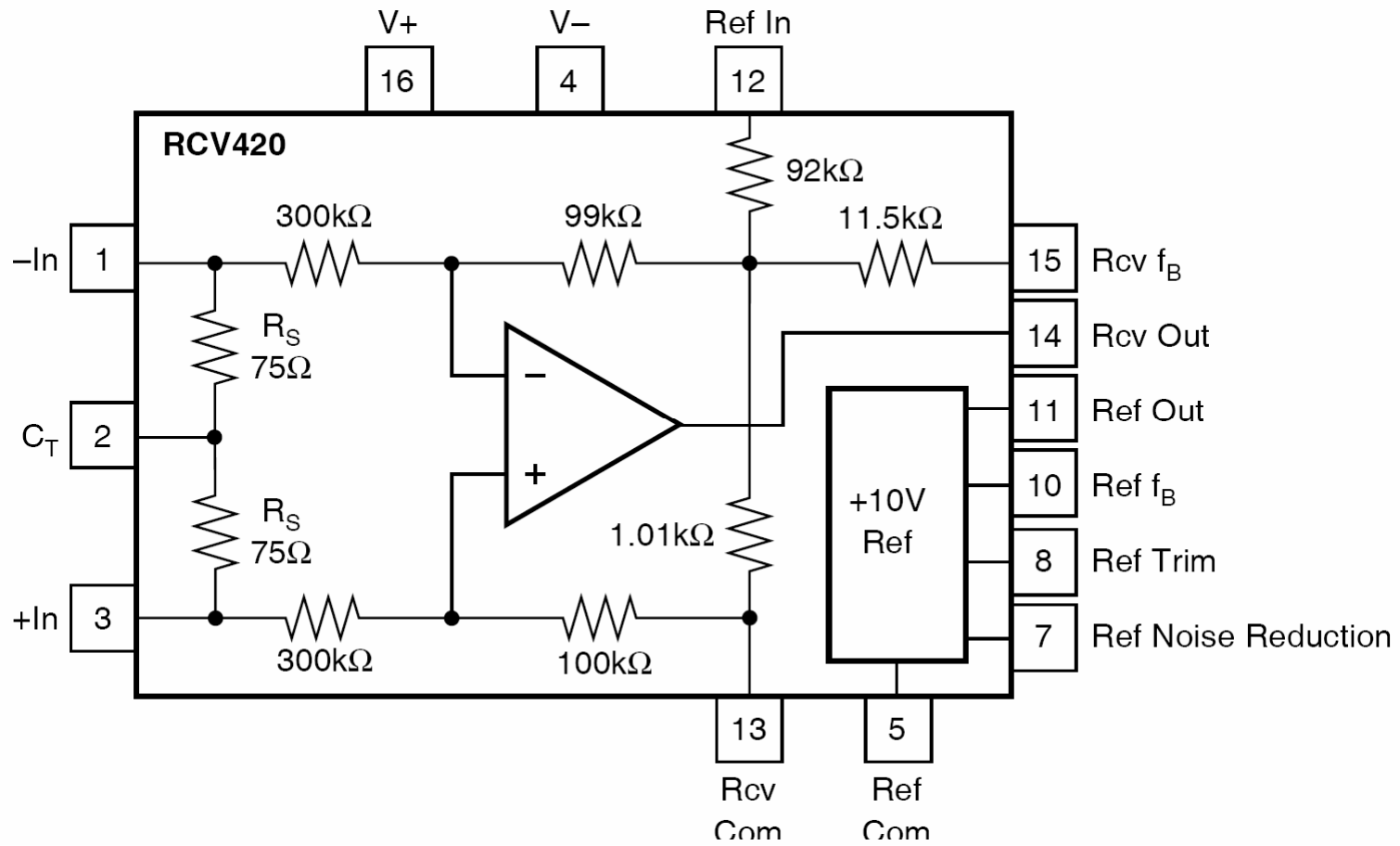
## Boucle de courant – XTR 105





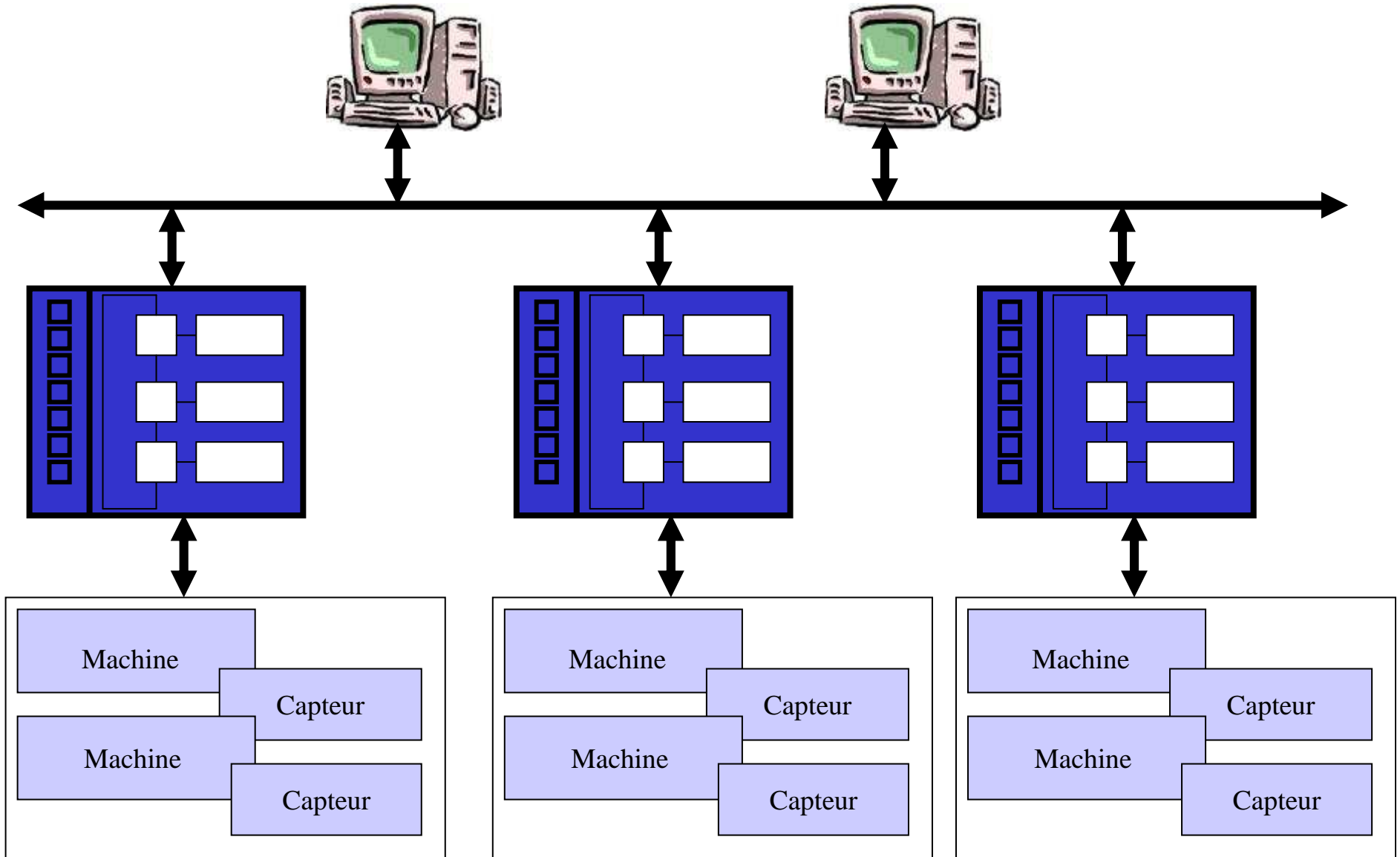
# Architecture centralisée

## Boucle de courant – RCV 420





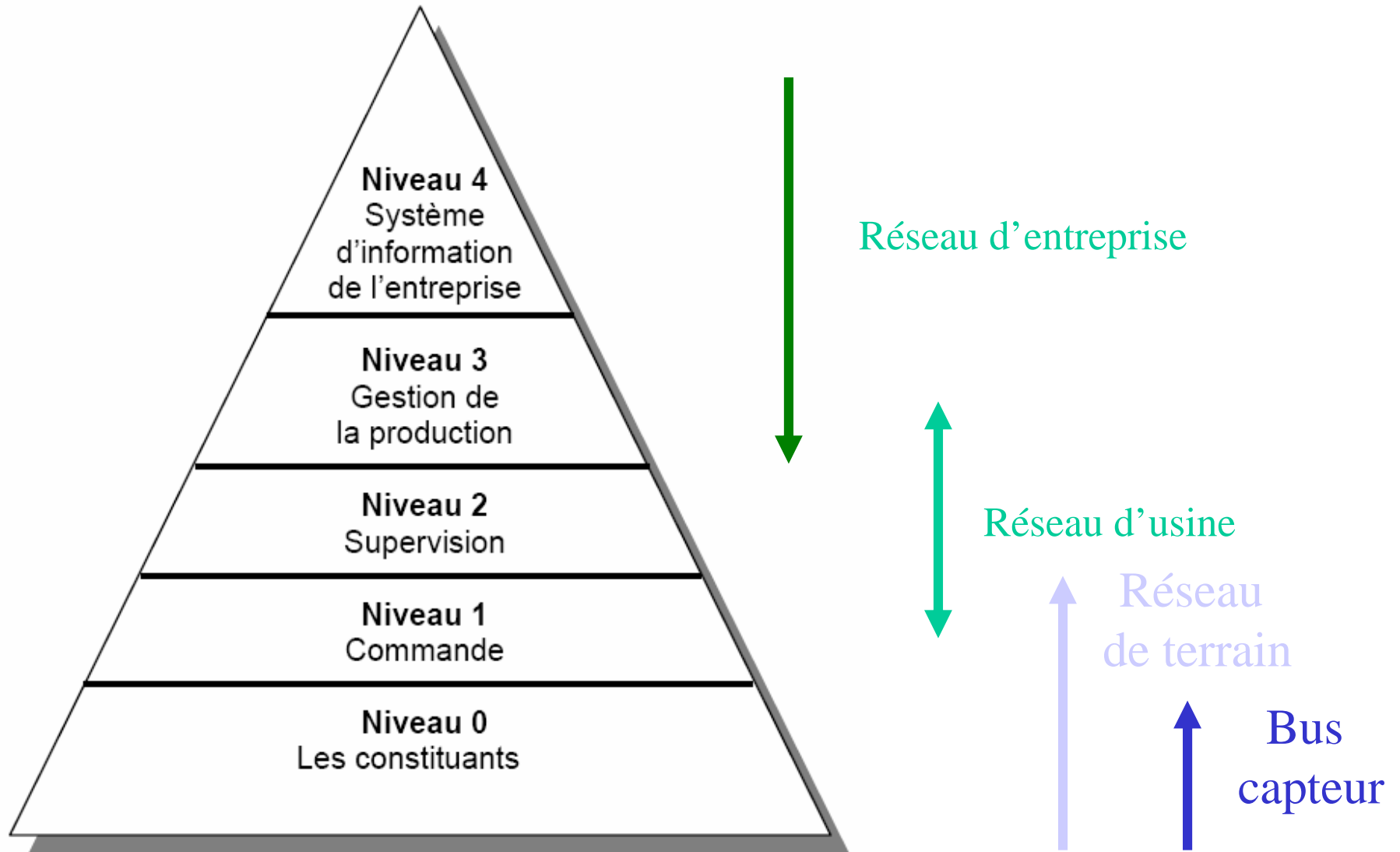
# Architecture décentralisée





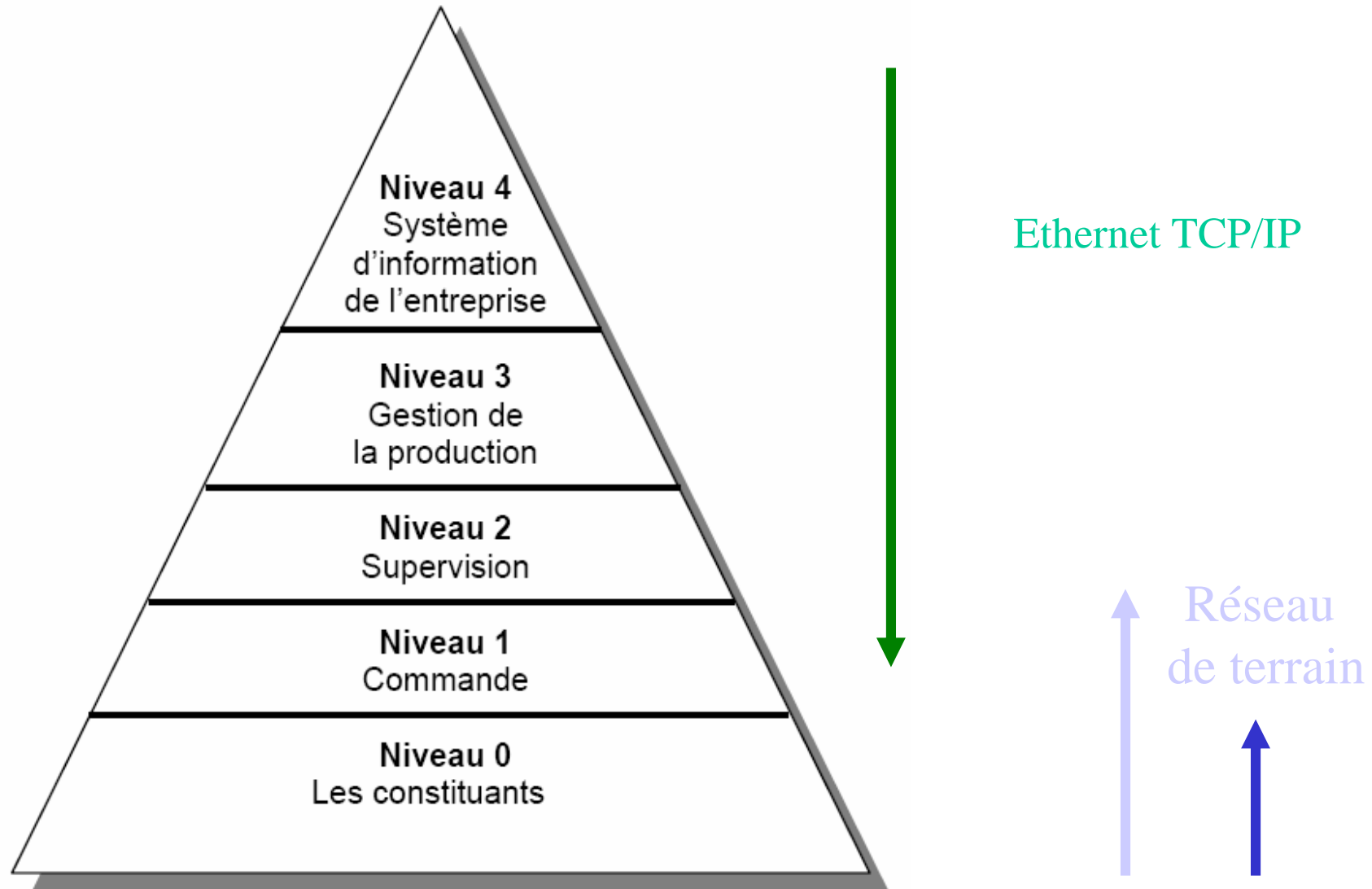


# Pyramide CIM





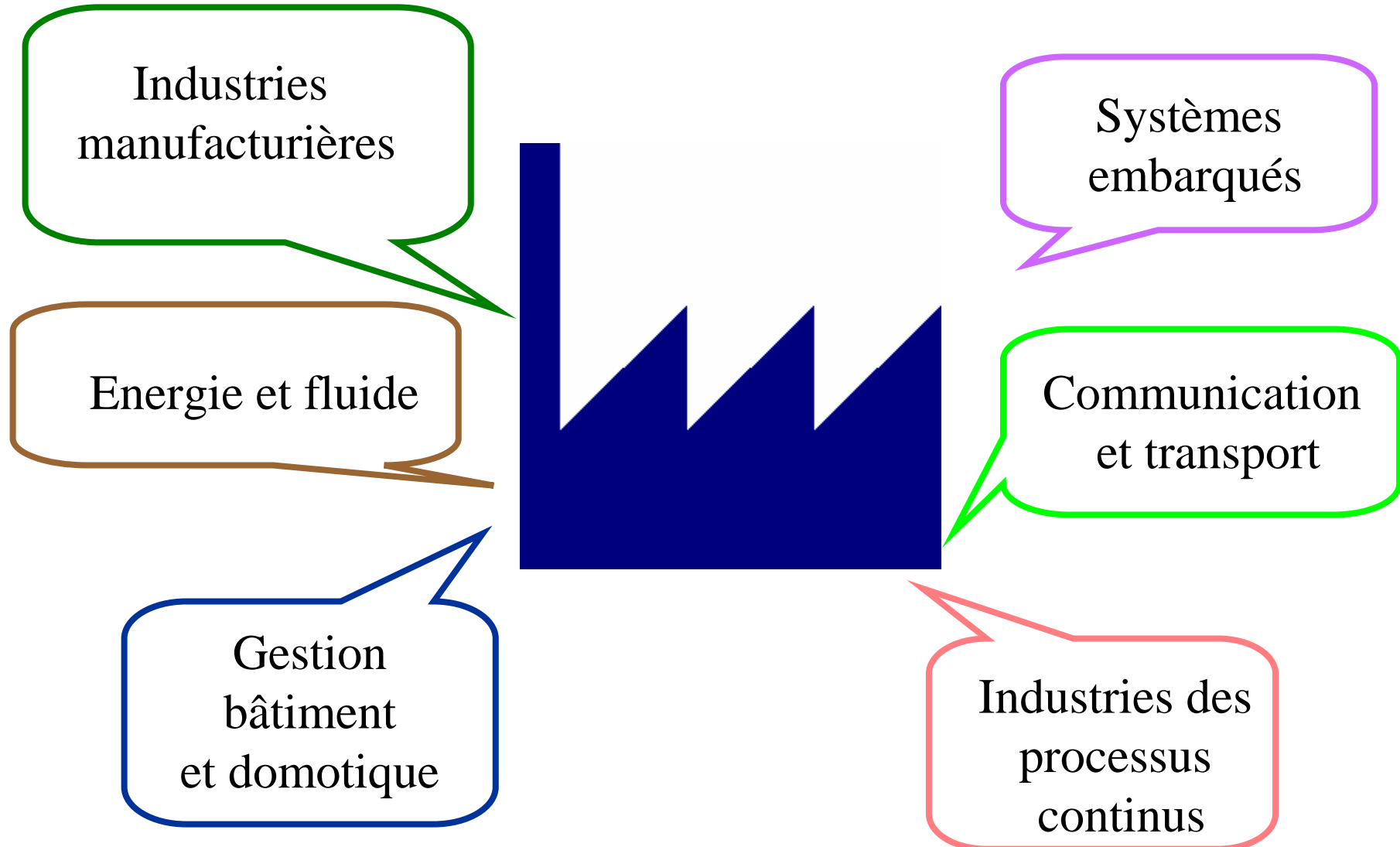
# Pyramide CIM Evolution





# Besoin en communication

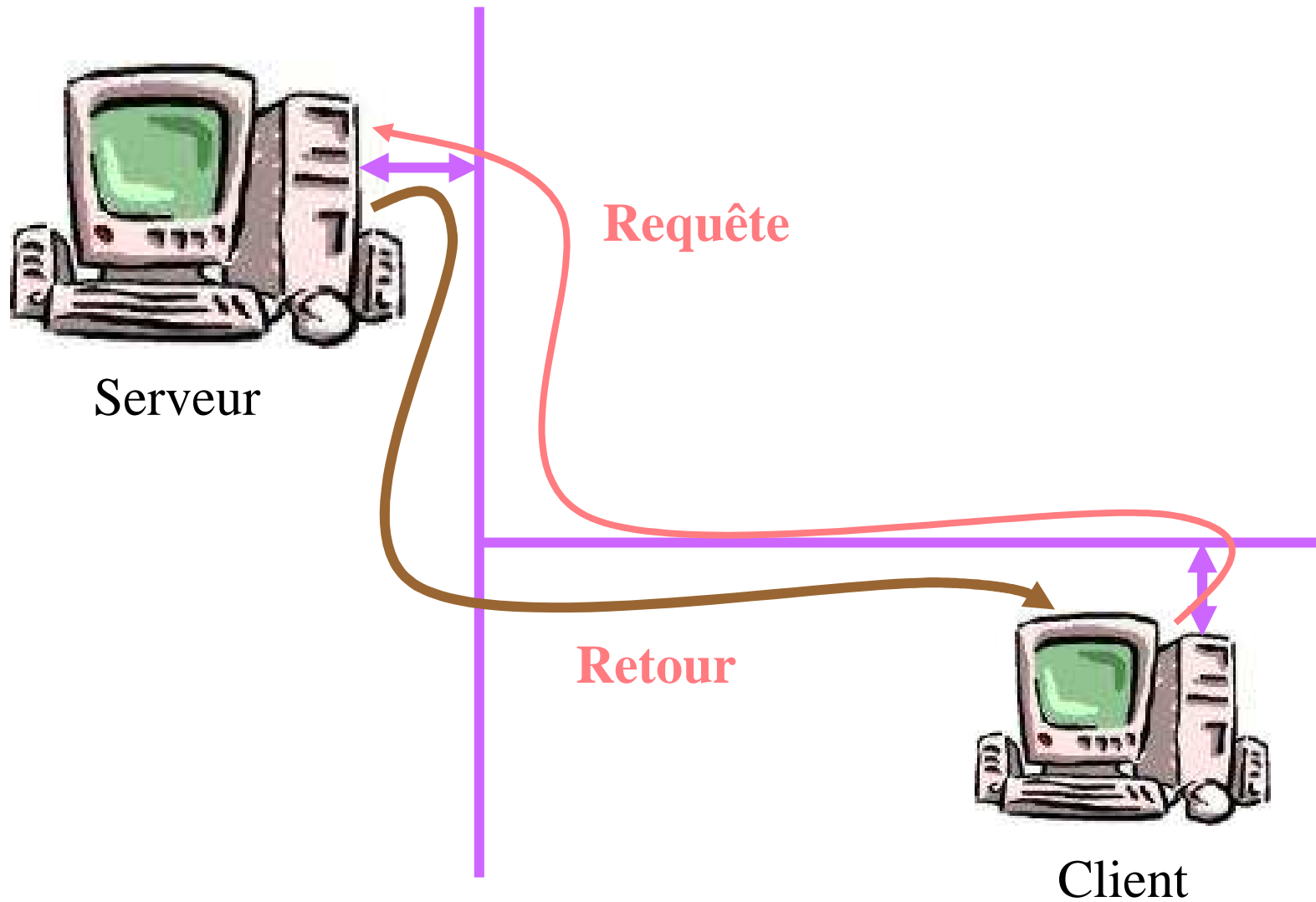
## Domaine d'application





# Besoin en communication

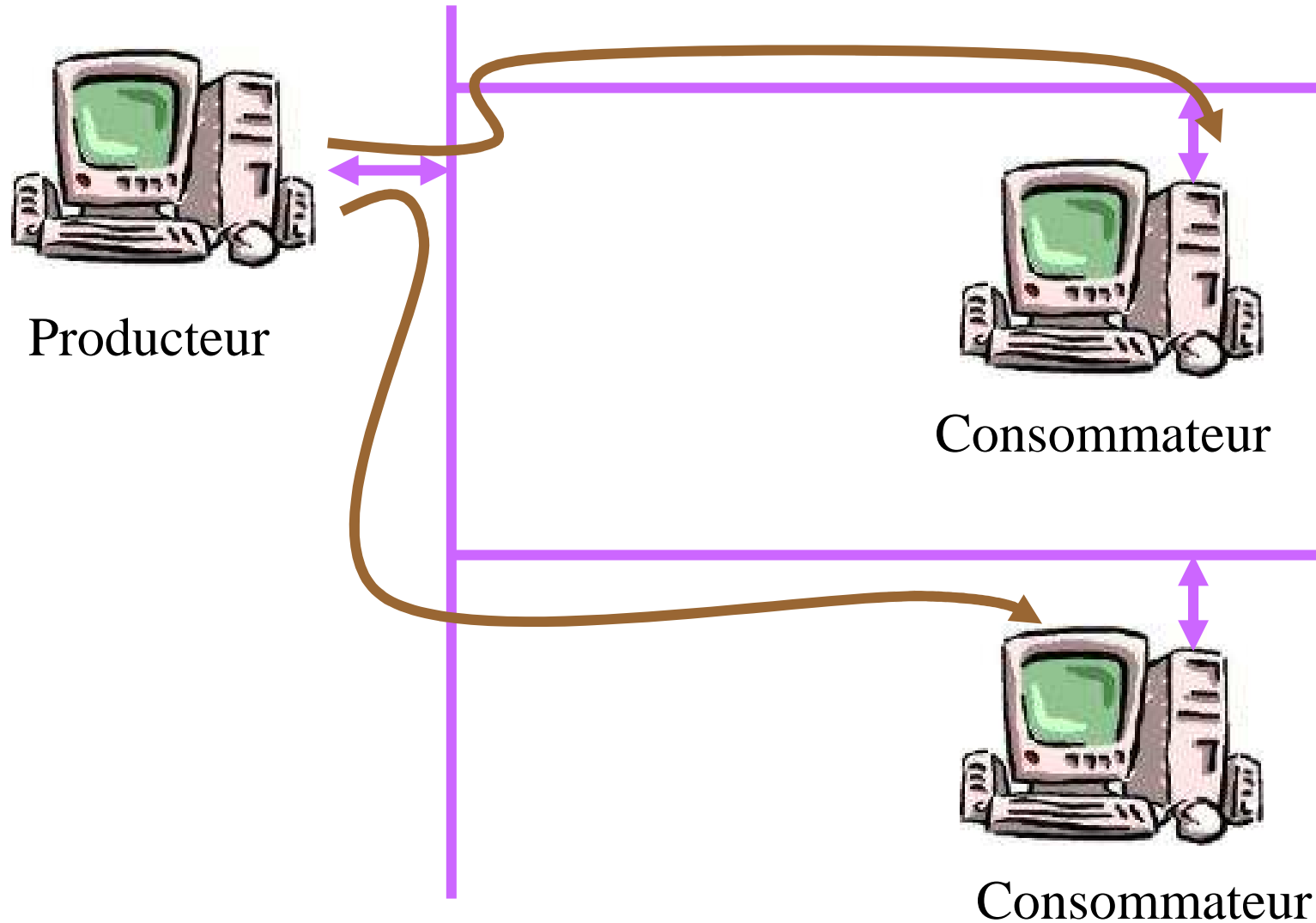
## Modèle de coopération - Modèle client serveur





# Besoin en communication

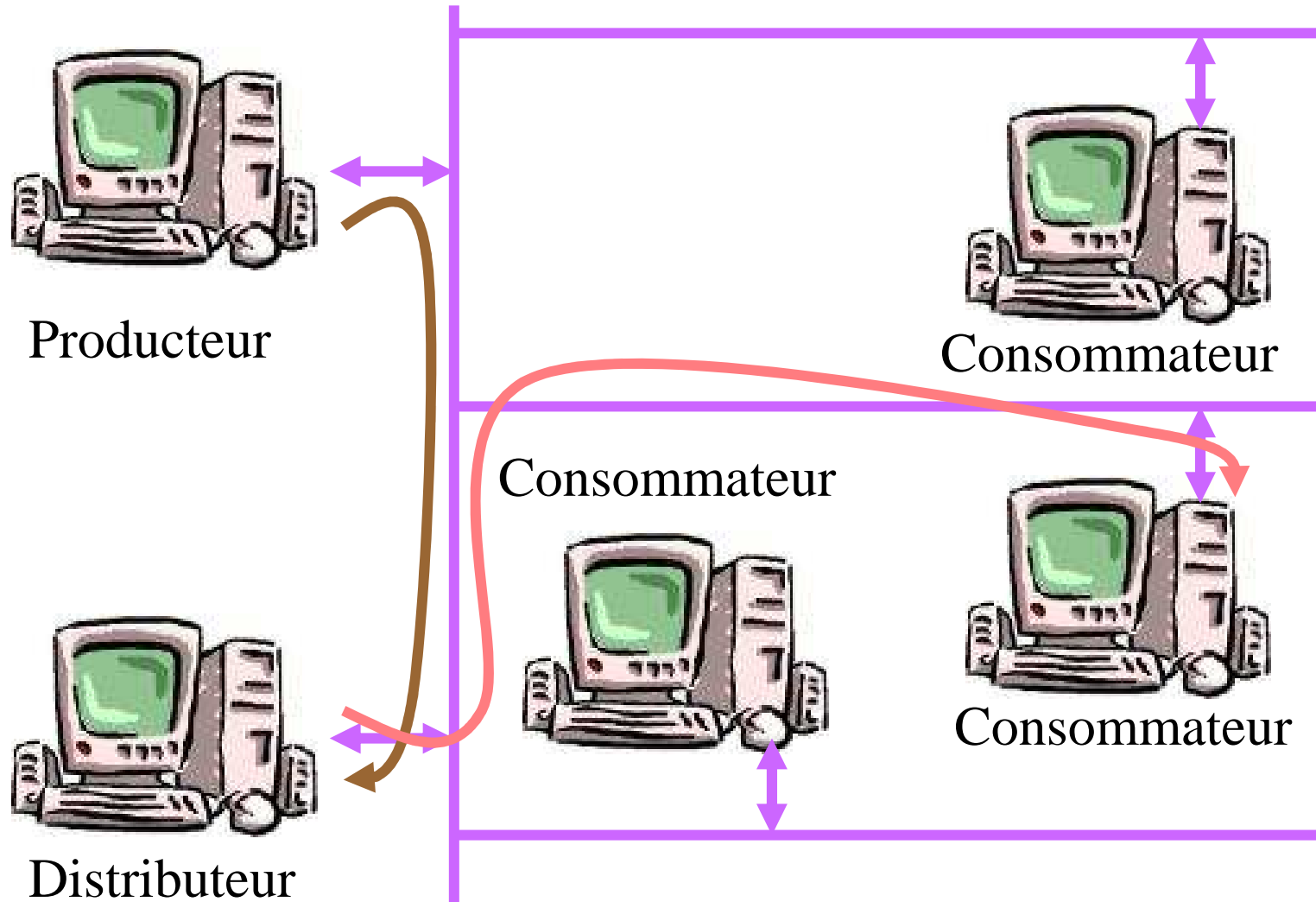
## Modèle de coopération - Modèle Producteur consommateur





# Besoin en communication

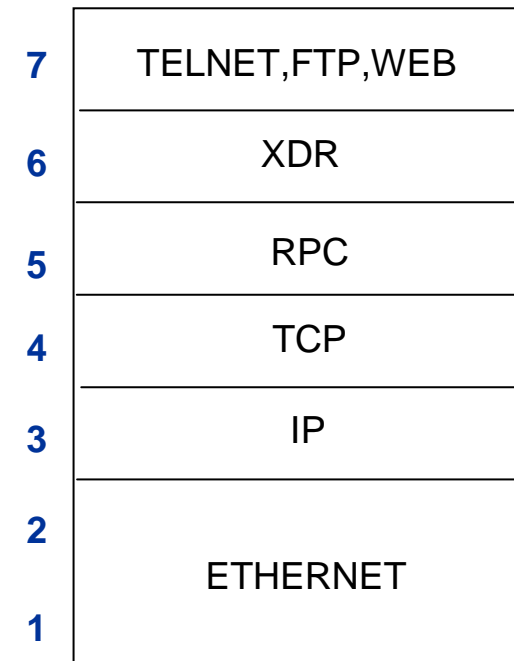
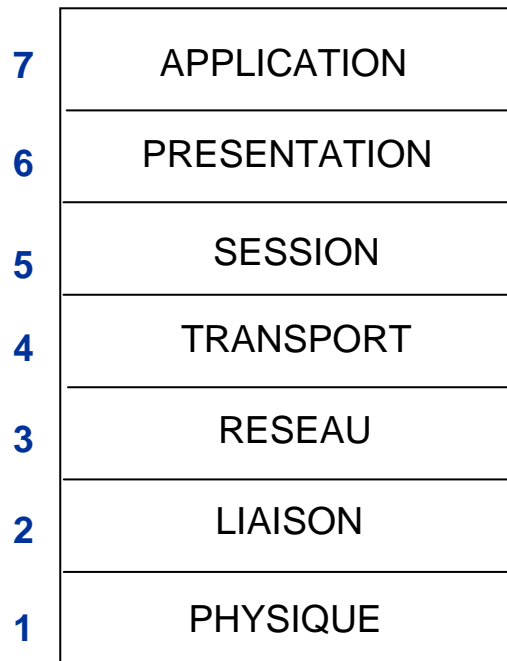
Modèle de coopération - Modèle Producteur distributeur - consommateur





# Besoin en communication

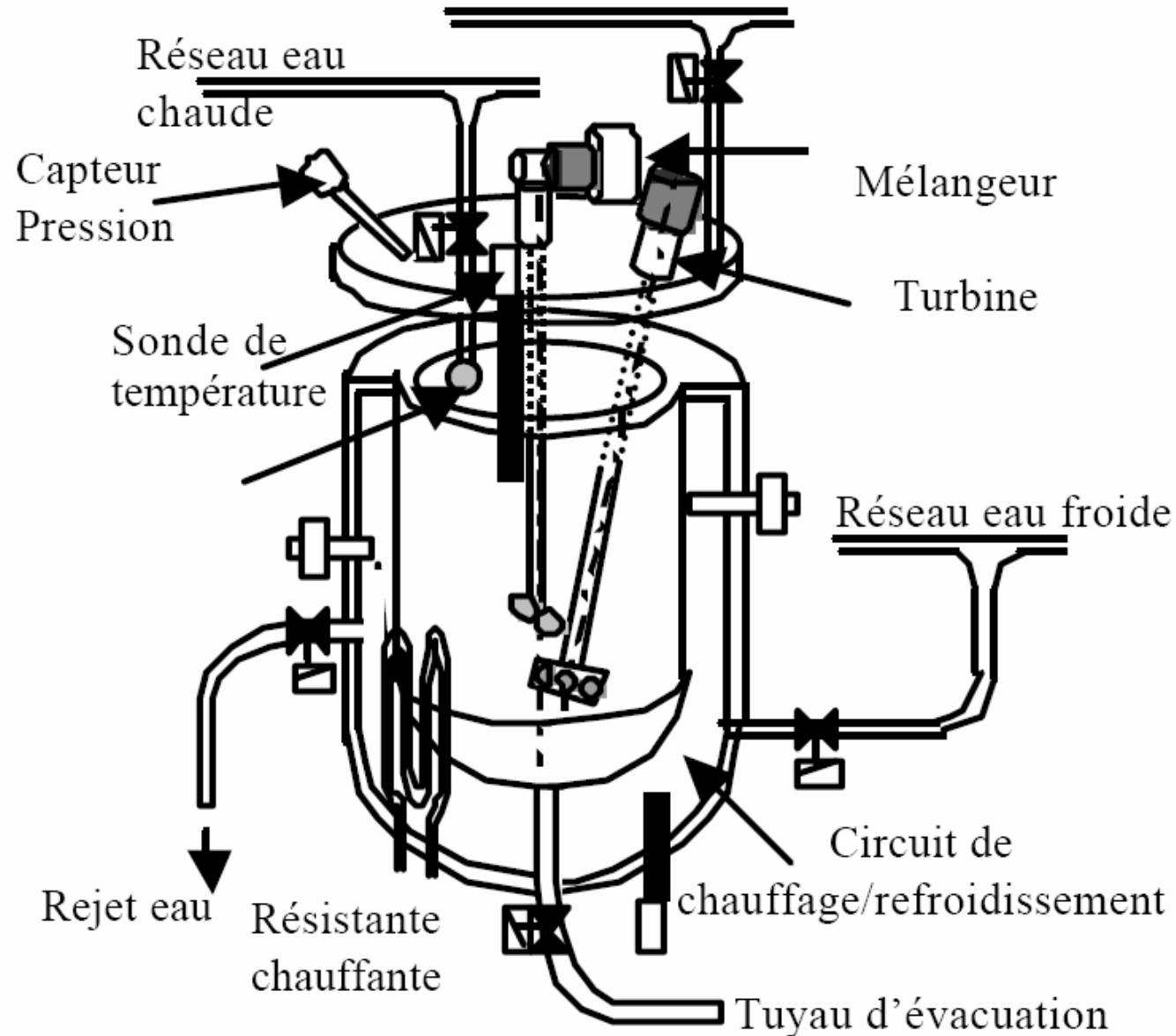
## Architecture des réseaux locaux industriels





# Exemple d'application

## Production cosmétique -Unité de production

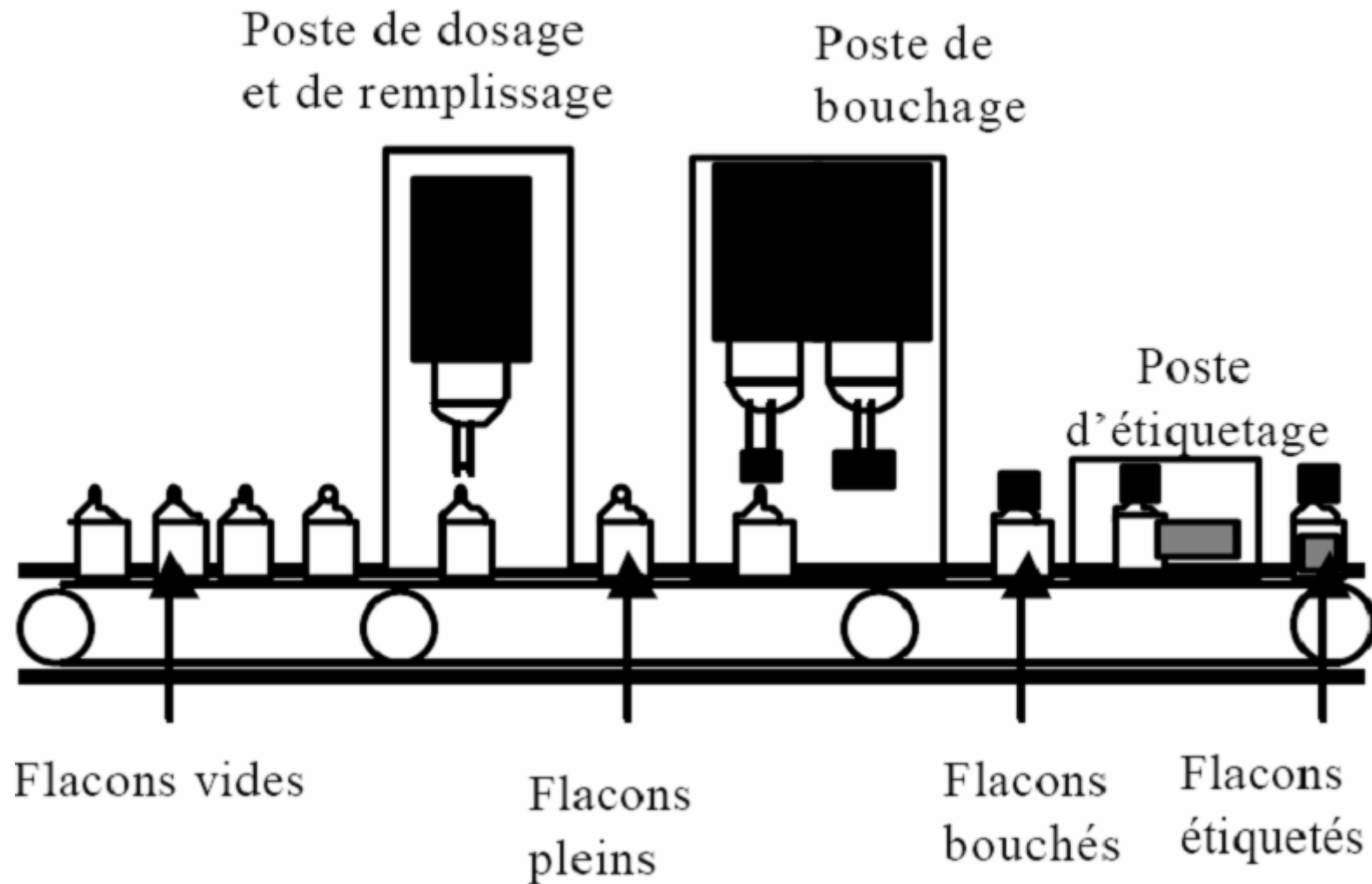






# Exemple d'application

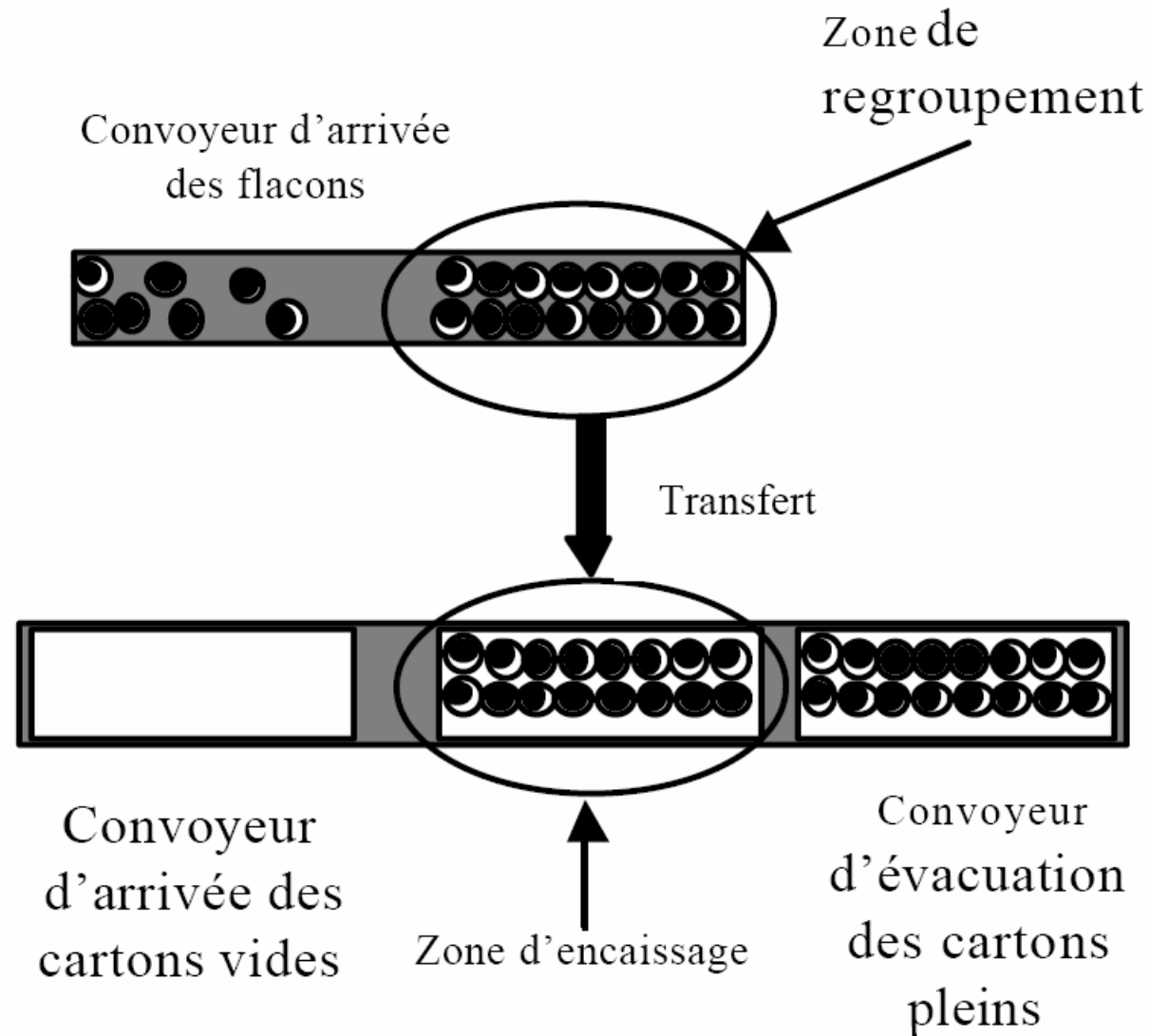
## Production cosmétique -Unité de conditionnement





# Exemple d'application

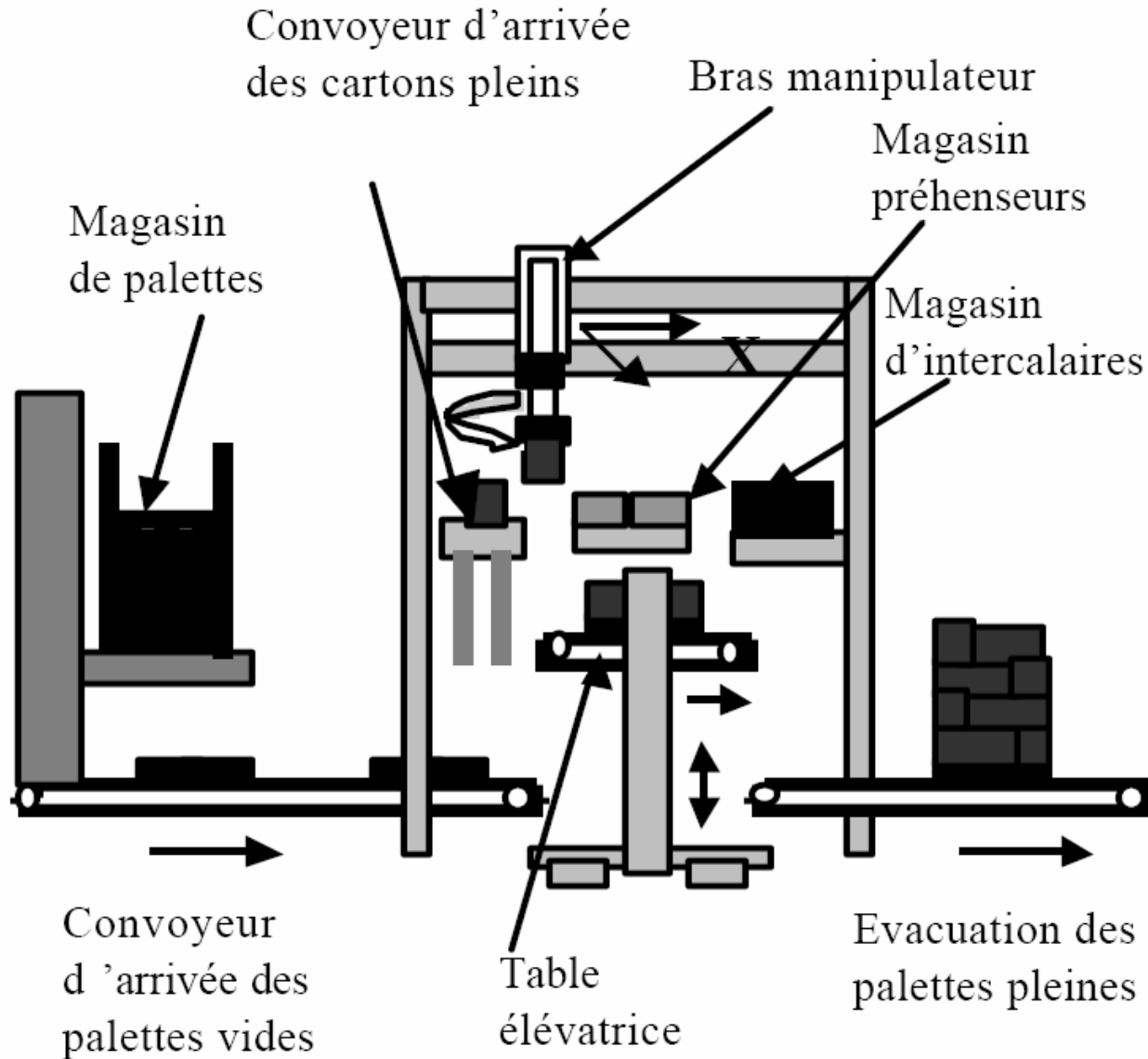
## Production cosmétique - Unité de d'encaissage





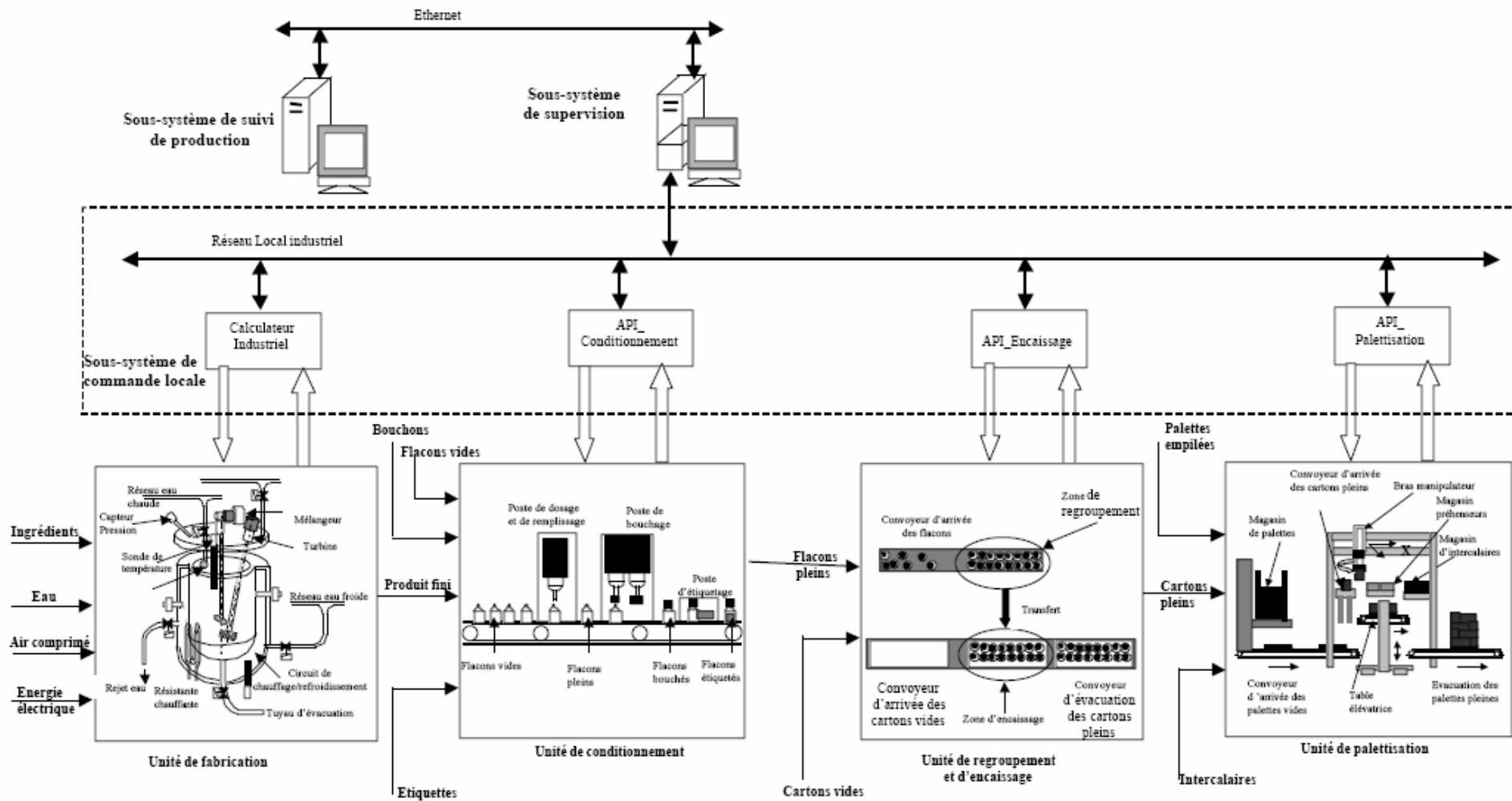
# Exemple d'application

## Production cosmétique - Unité de palettisation





# Exemple d'application Architecture





## Conclusion

# Définition des Réseaux Locaux Industriels

## Réseau Locaux Industriels

Zone géographique  
restreinte



Commande de machine





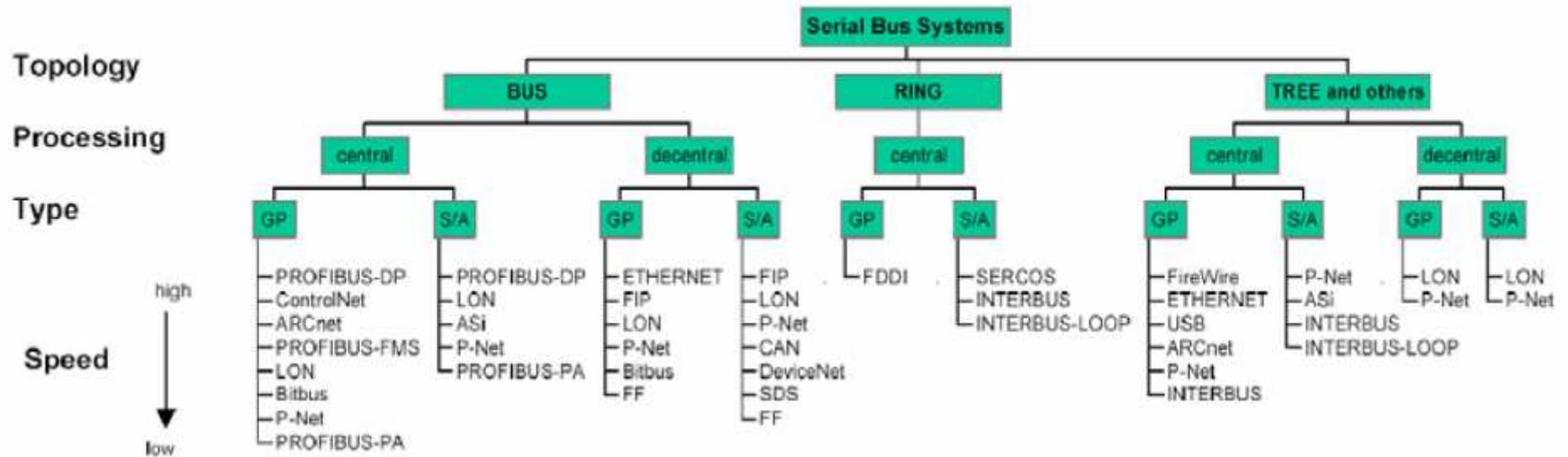
# Conclusion

## Offre du marché





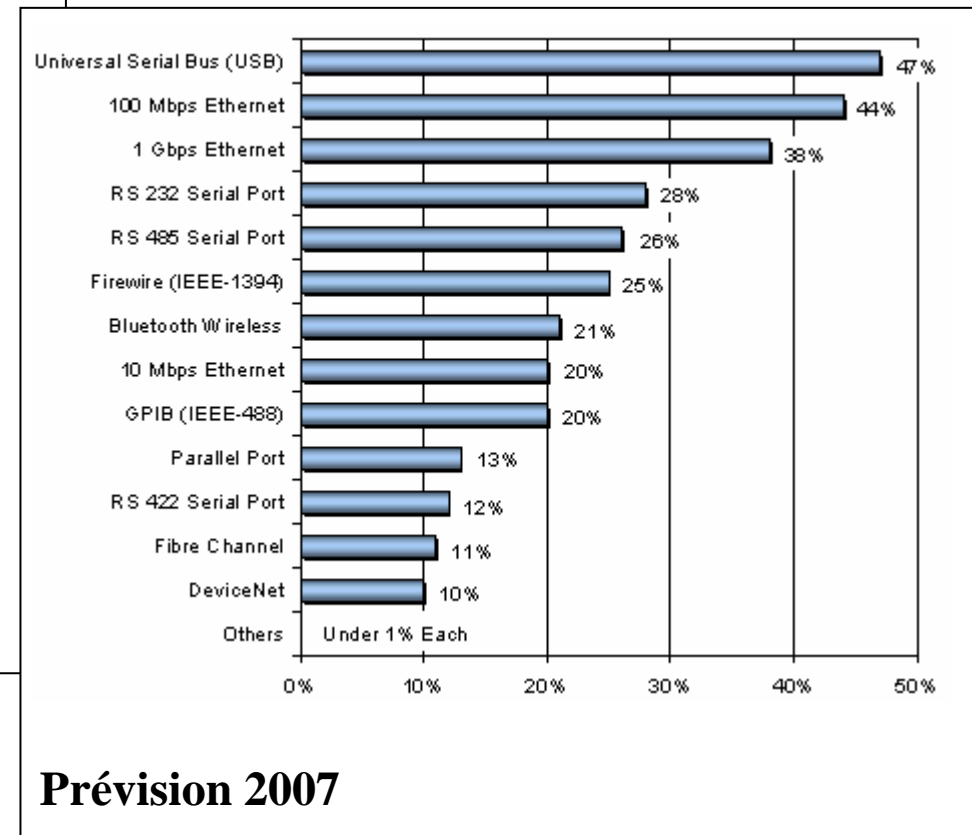
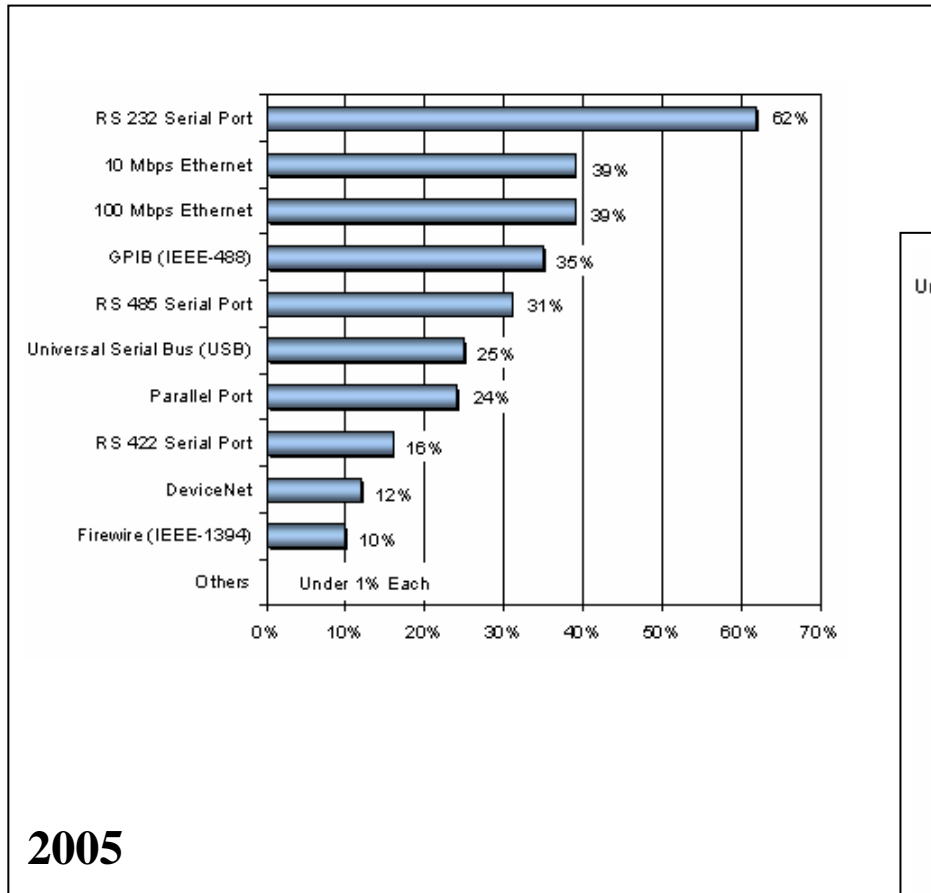
# Conclusion Classification





# Conclusion

## Bus utilisé en acquisition de données





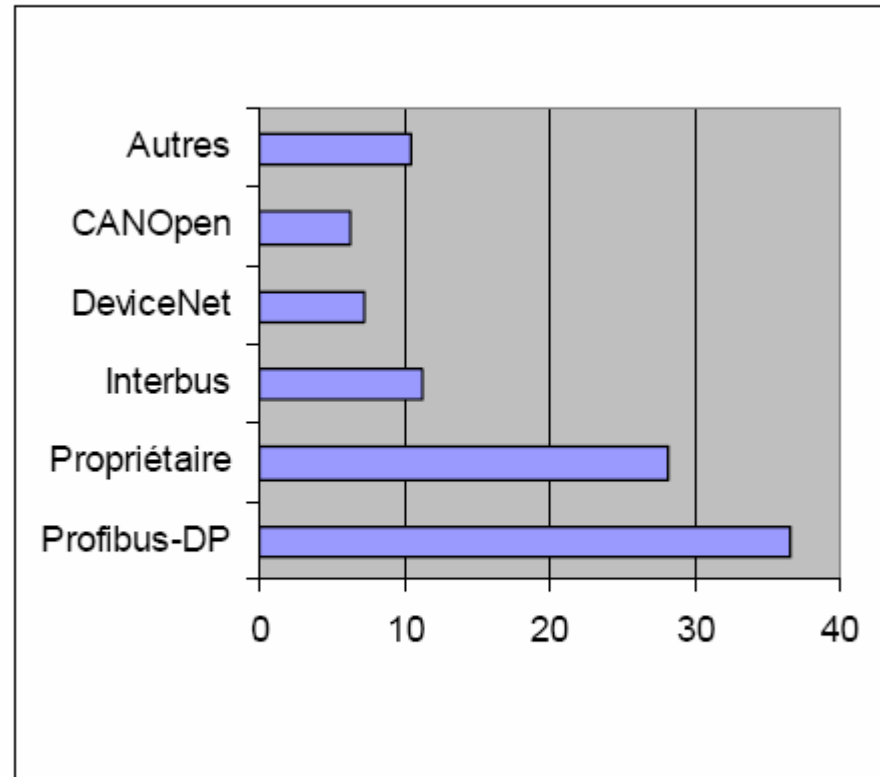


# Conclusion

## Marché européen des E/S déportées sur API

Enquête IMS Research 2003 :

Revue Industrial networking and Open Control 02/03

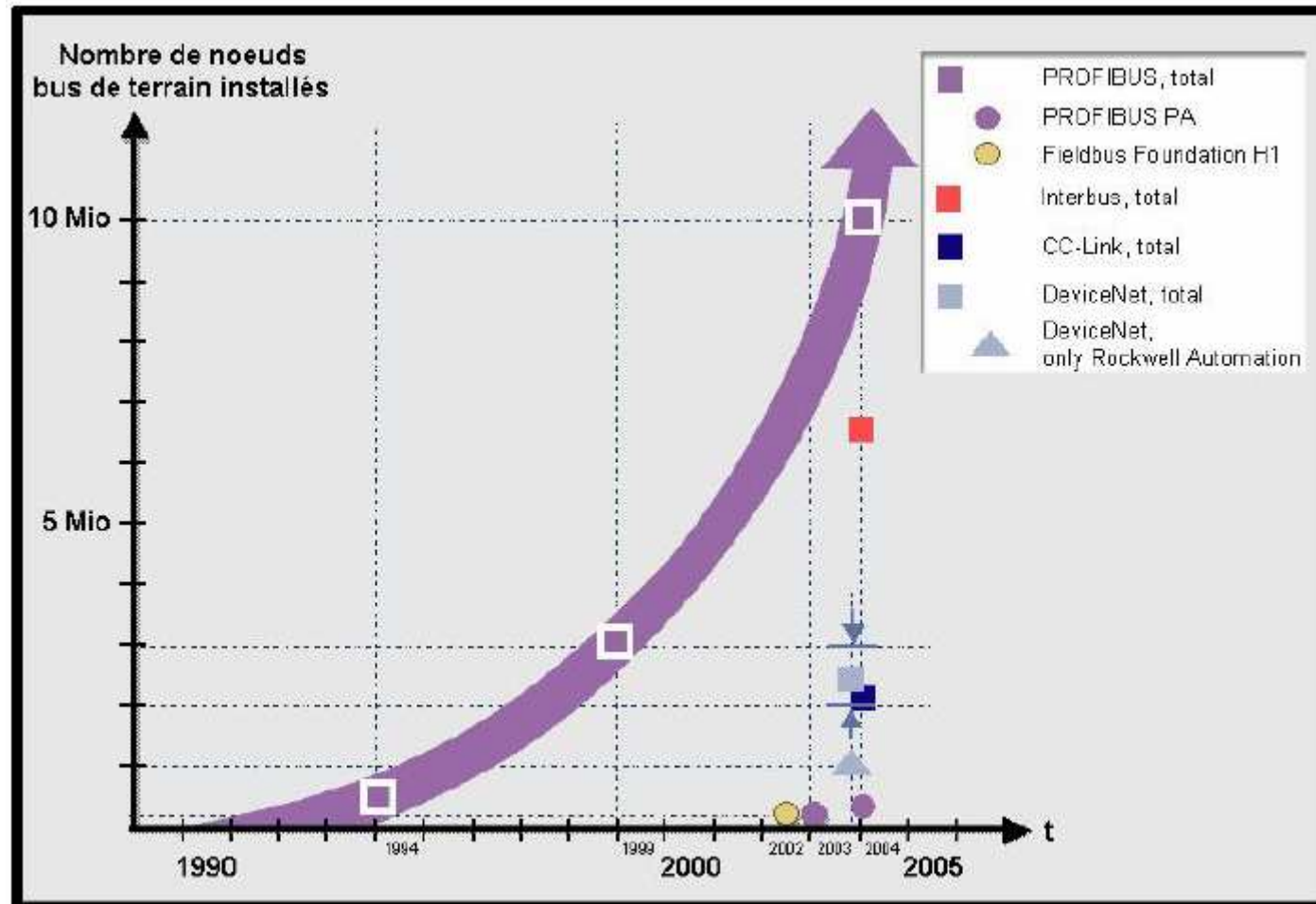


Autres : Modbus 2,1%, Asi 2,1 %, SSI 0,8%,  
Ethernet 0,8%, profibus-FMS 0,2%, divers 4,3%



# Conclusion

## Perspectives Profibus





# Conclusion

## Marché mondial

### Réseaux

- DeviceNet
- PROFIBUS
- CC-Link
- FF



### Câblage

- ① RS 485
- ② IEC 61158-2
- ③ Hart, 4...20 mA

