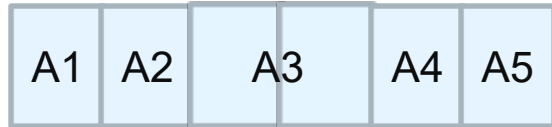




**ZONE 1: Prozessautomation**



**ZONE 2: Abfüllen und Verpacken**

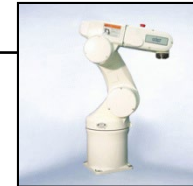
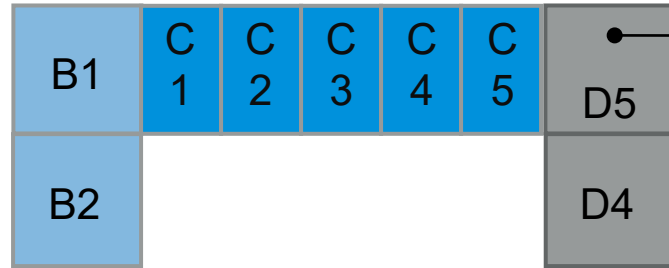
- A1** – Filtern
- A2** – Mischen
- A3** – By-Pass-Station und Tank
- A4** – Reaktor
- A5** – Abfüllen (Qualitätsprobe)

- B1** – Abfüllen
- B2** - Kommissionieren

- C1** – Verteilen (Handling)
- C2** – Trennen
- C3** – Bearbeiten
- C4** – Puffern
- C5** – Handhaben

- D1** - Palettentransportsystem
- D2** – Hochregallager
- D3** – Warenein- und ausgang
- D4** – Entpacken
- D5** – Recycling (Roboterstation)
- R1** – Roboter Adept Cobra s600
- R2** – Roboter Adept Viper s650

**ZONE 3: Deckelzufuhr**



R2



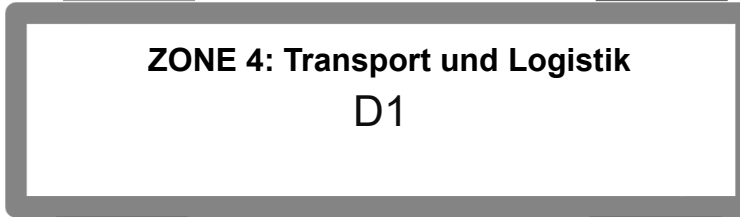
PC9



LS

**ZONE 4: Transport und Logistik**

D1



D2

D3



R1



MPC1



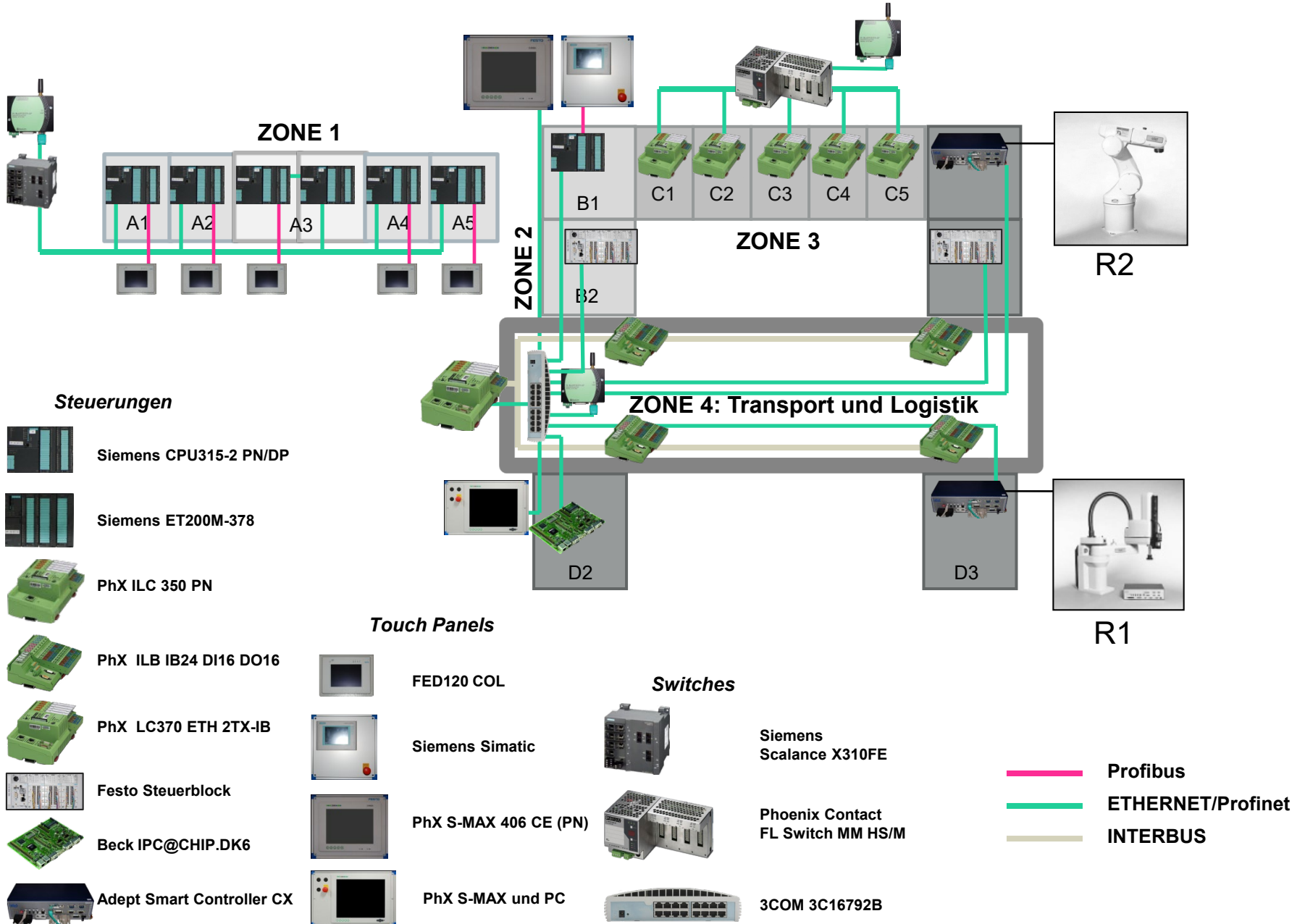
MPC2

**PC1 ... 9** – Nutzerrechner

**LS** – Leitstation

**MPC1, MPC2** – mobile PC-Arbeitsstation

# Steuerungs- und Kommunikationsschema






## Steuerungen




-  Siemens CPU315-2 PN/DP
-  Siemens ET200M-378
-  PhX ILC 350 PN
-  PhX ILB IB24 DI16 DO16
-  PhX LC370 ETH 2TX-IB
-  Festo Steuerblock
-  Beck IPC@CHIP.DK6
-  Adept Smart Controller CX

## Touch Panels

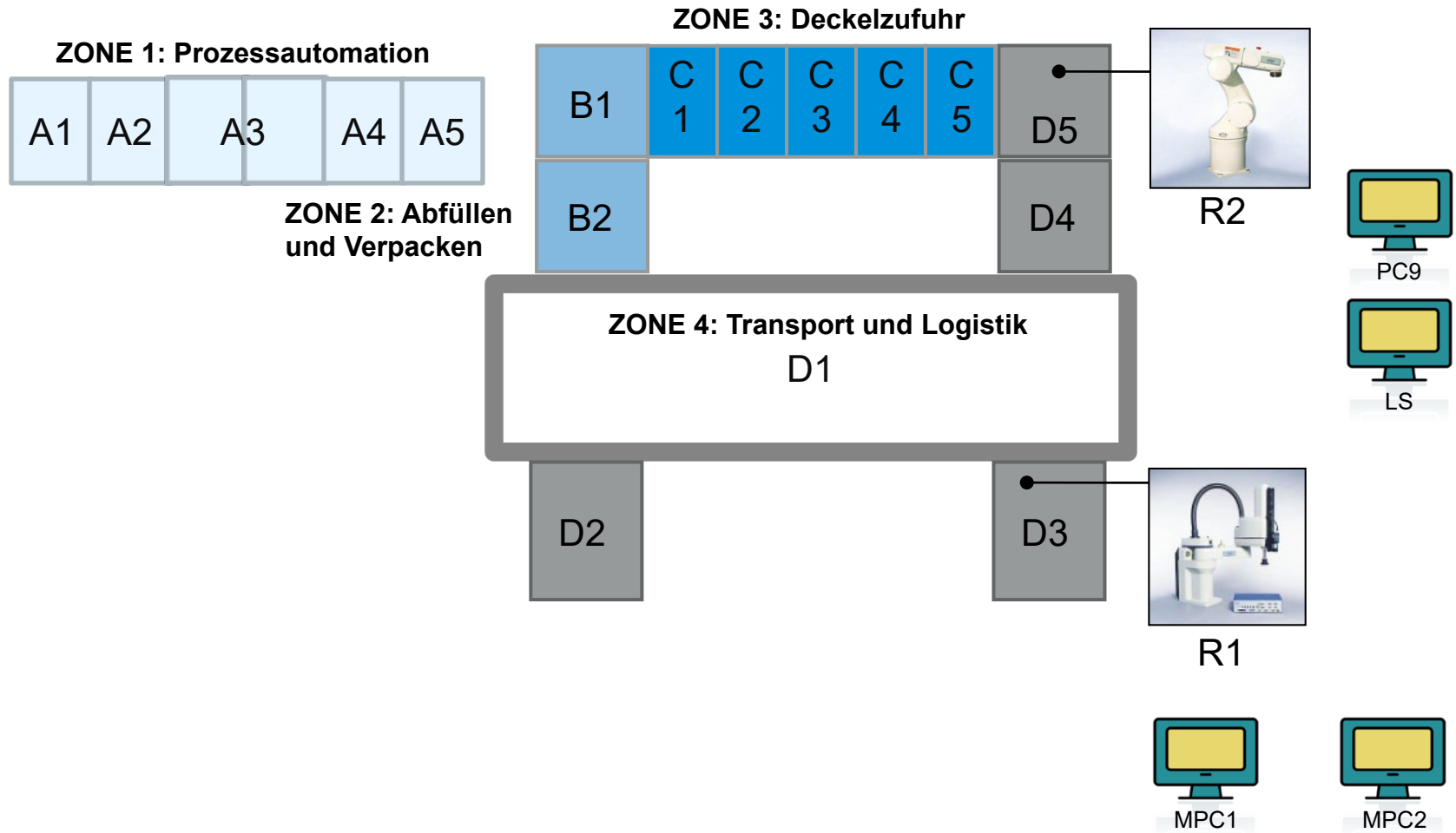
-  FED120 COL
-  Siemens Simatic
-  PhX S-MAX 406 CE (PN)
-  PhX S-MAX und PC

## Switches

-  Siemens Scalance X310FE
-  Phoenix Contact FL Switch MM HS/M
-  3COM 3C16792B

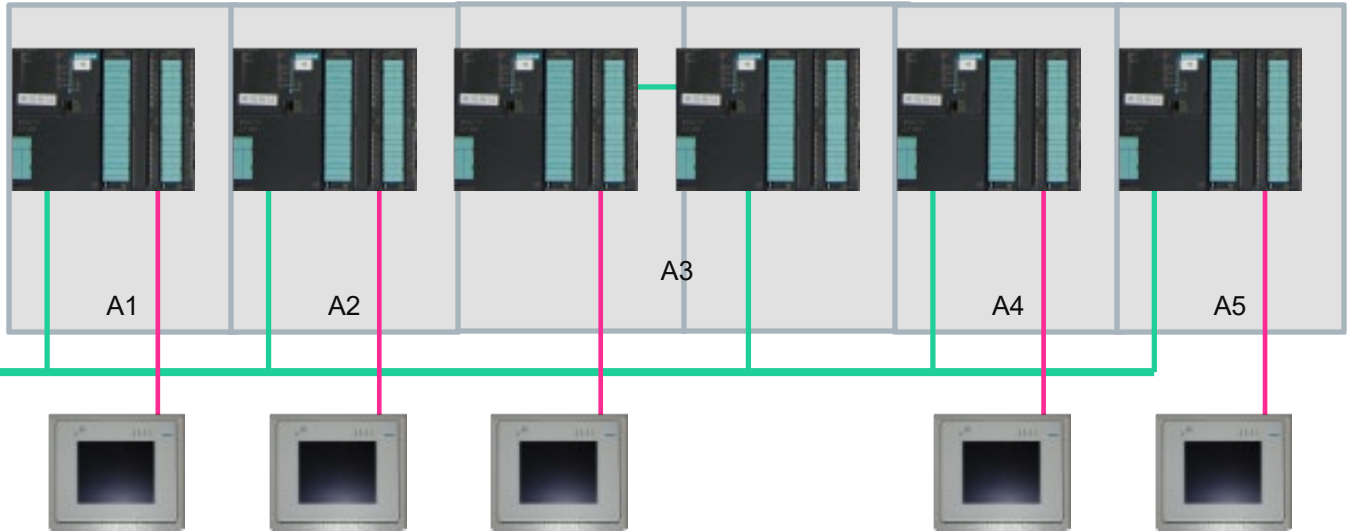
-  Profibus
-  ETHERNET/Profinet
-  INTERBUS

# Stromversorgung

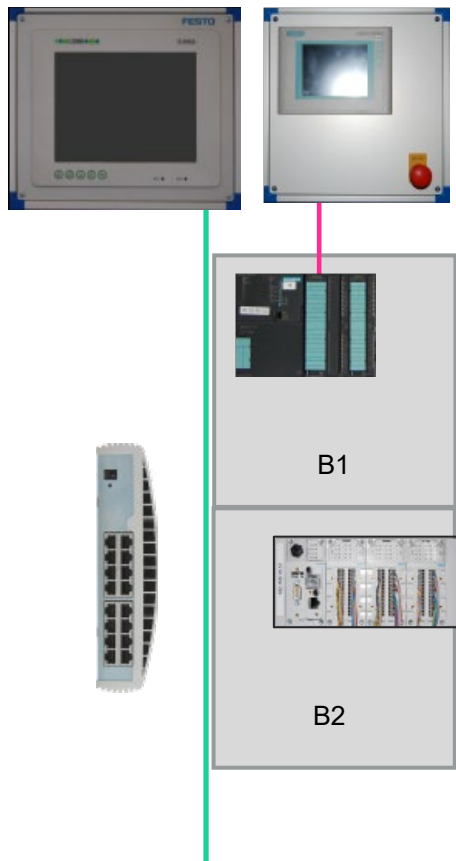




ZONE 1



# ZONE 2



# ZONE 3

