

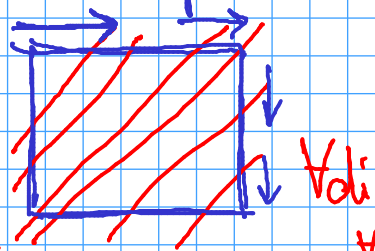
# FUNCTIONAL FEATURES

# NON FUNCTIONAL FEATURES

## ADAPTIVITY

### ENDOGENI

(che dipendono dall'application)



### ESOGENI

(che non dip. dall'app. ma piuttosto dallo piattaforma su cui si opera)

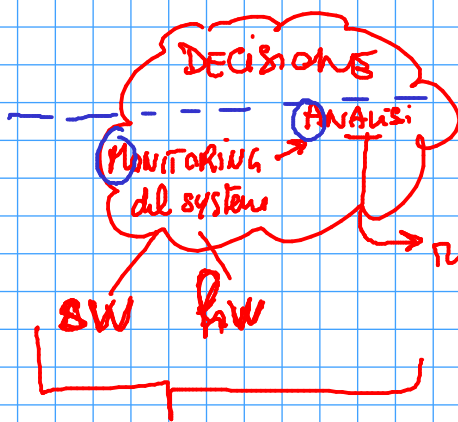
uso non esclusivo delle risorse di calcolo

$V_{elem} \in d_i$   
 $f(dom)$

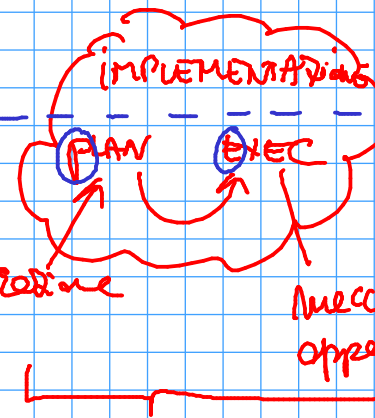


ADAPTATION (RECONFIG)

STATICO  
DINAMICO



APPLICATION SPECIFIC



IMPLEMENTATION SPECIFIC

GENERIC

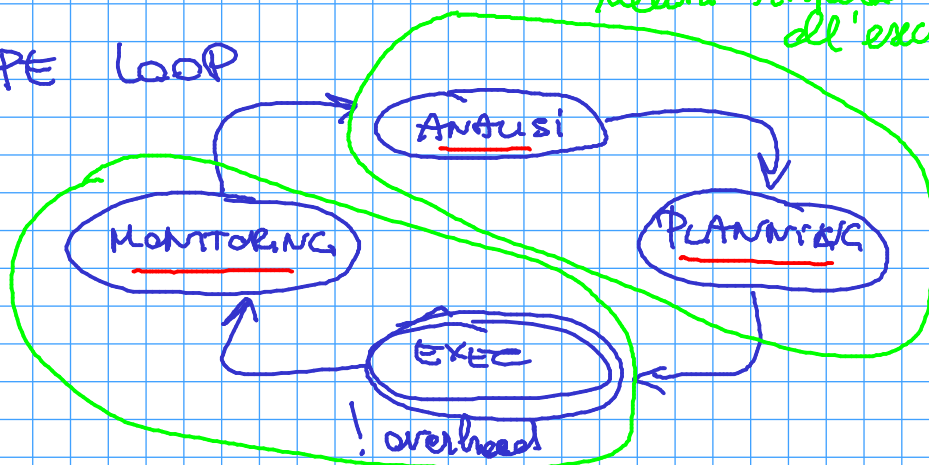
DOMAIN SPECIFIC

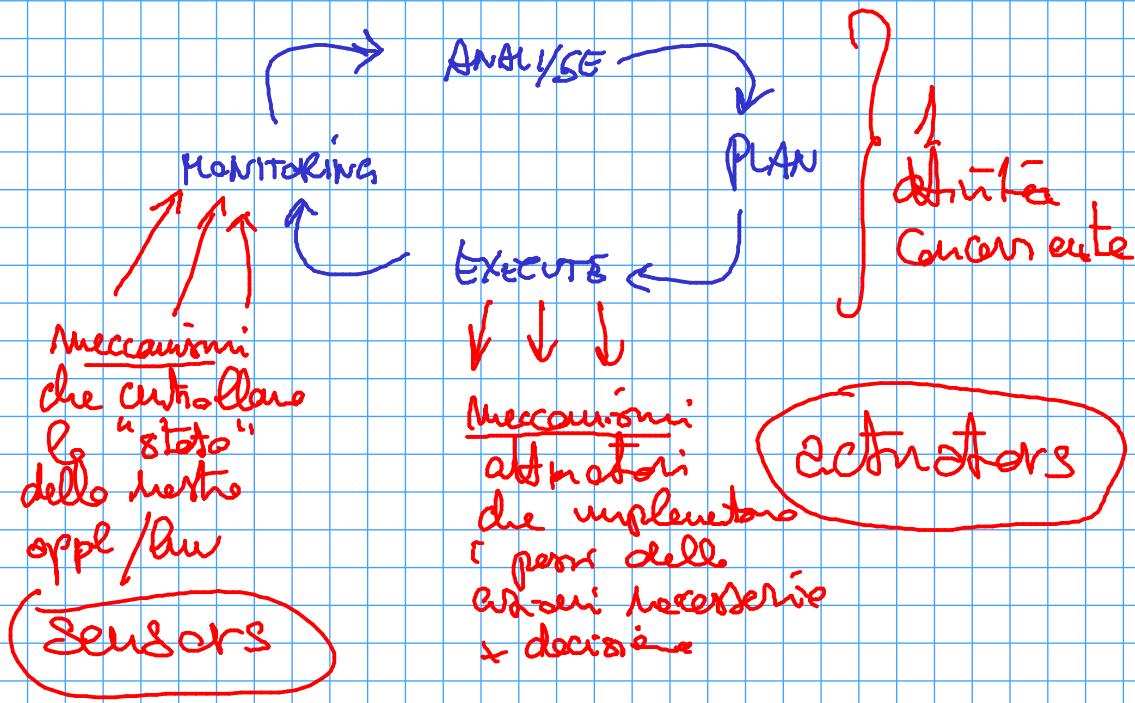
riconfigurazione

meccanismi opportuni

mentre rispetto all'esecuzione

## MAPE LOOP





## AUTONOMOUS COMPUTING

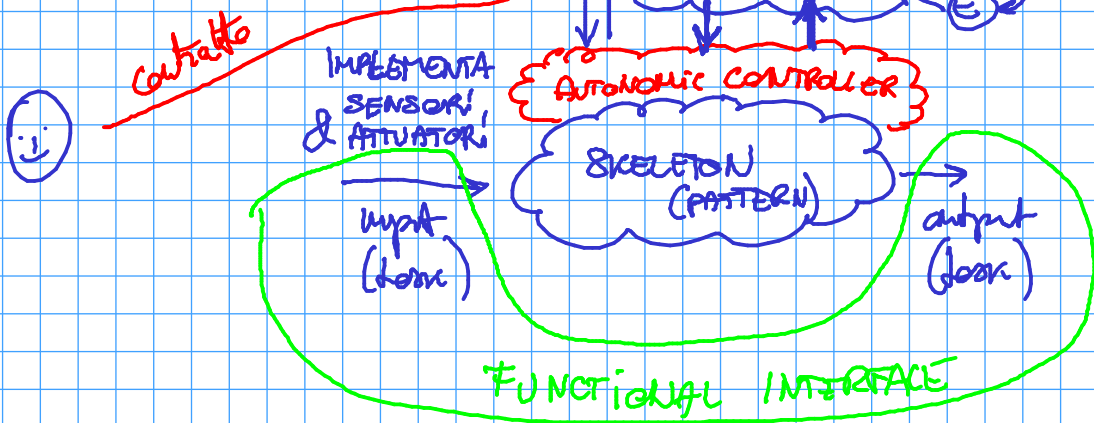
- self- \* properties
- configuration
  - optimization
  - healing
  - protection

# BEHAVIOURAL SKELETON

(CoreGRID, GRID Group)  
NoE  
4 partner

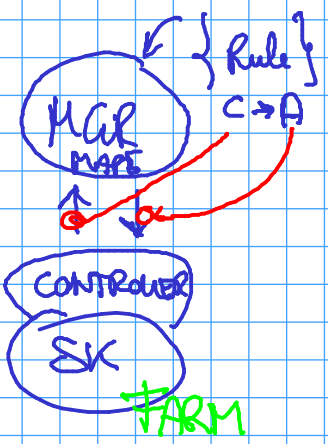
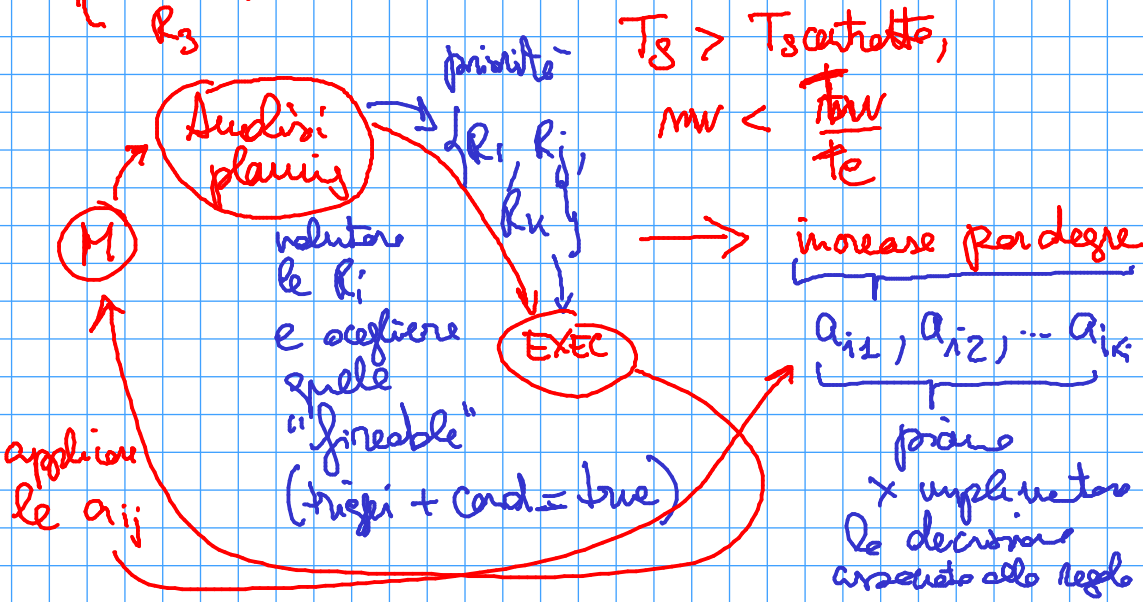
STREP  
<10 partner

NON FUNCTIONAL INTERFACE



(i)

regole "ECA" } Event Condition Action rule  
 $R_1, R_2, R_3, \dots, R_n$  }  $Cambie(T_s)$  &



$R_{nw++}$   
 $T_s > richiesta$   
 $\exists risorse$   
 $m_w < \frac{T_w}{T_e}$  }  $\rightarrow$  { installa  $W$   
 aumento  $W \rightarrow E$

$R_{mw--}$   
 $T_s \ll richiesta$  }  $\rightarrow$  { consumo  $a E$   
 che toglie  $W_i$   
 STOP  $W_i$   
 dealloca

