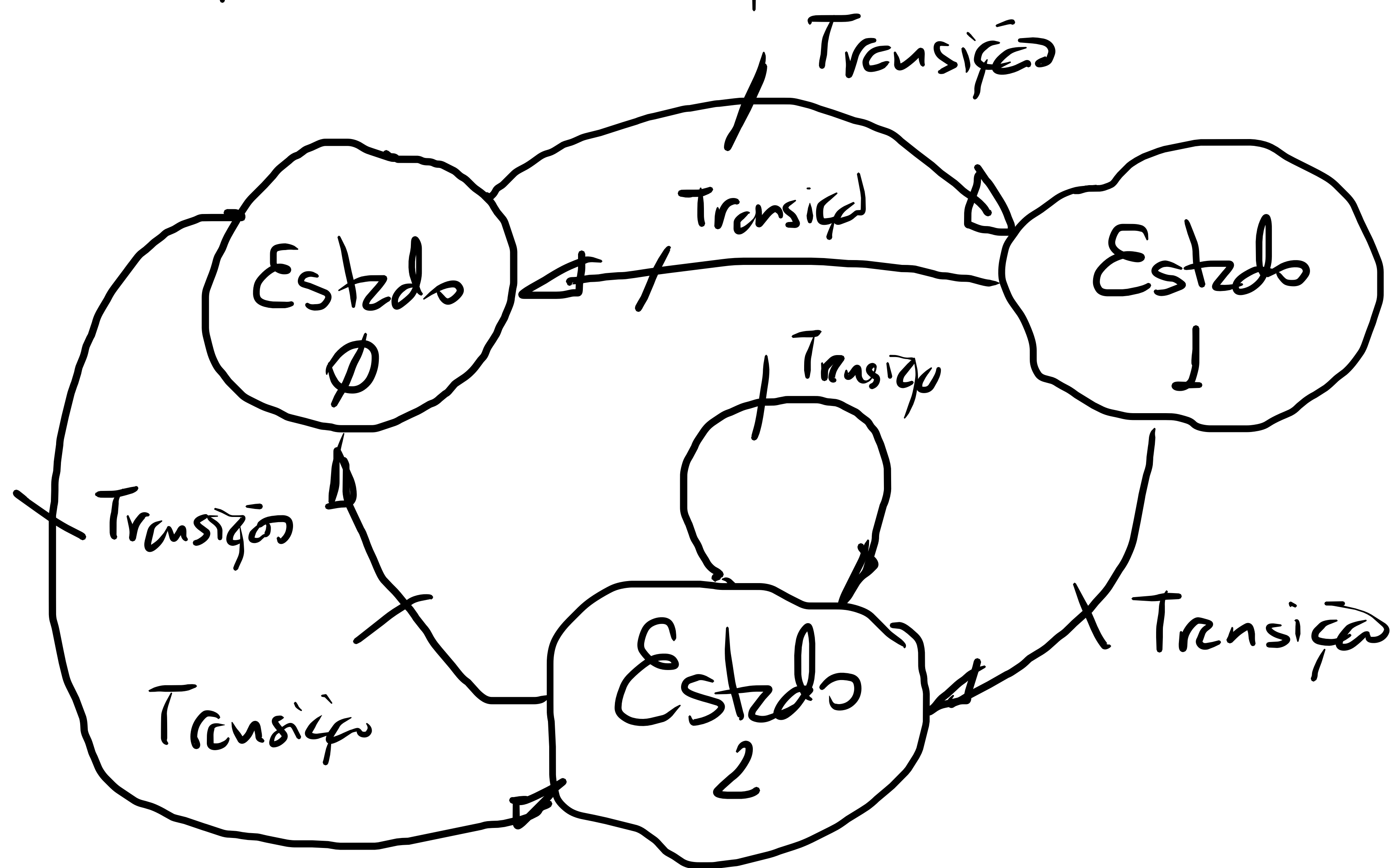


SFC - Sequential function chart

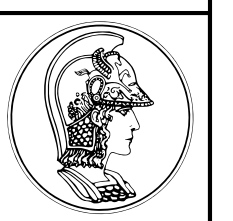
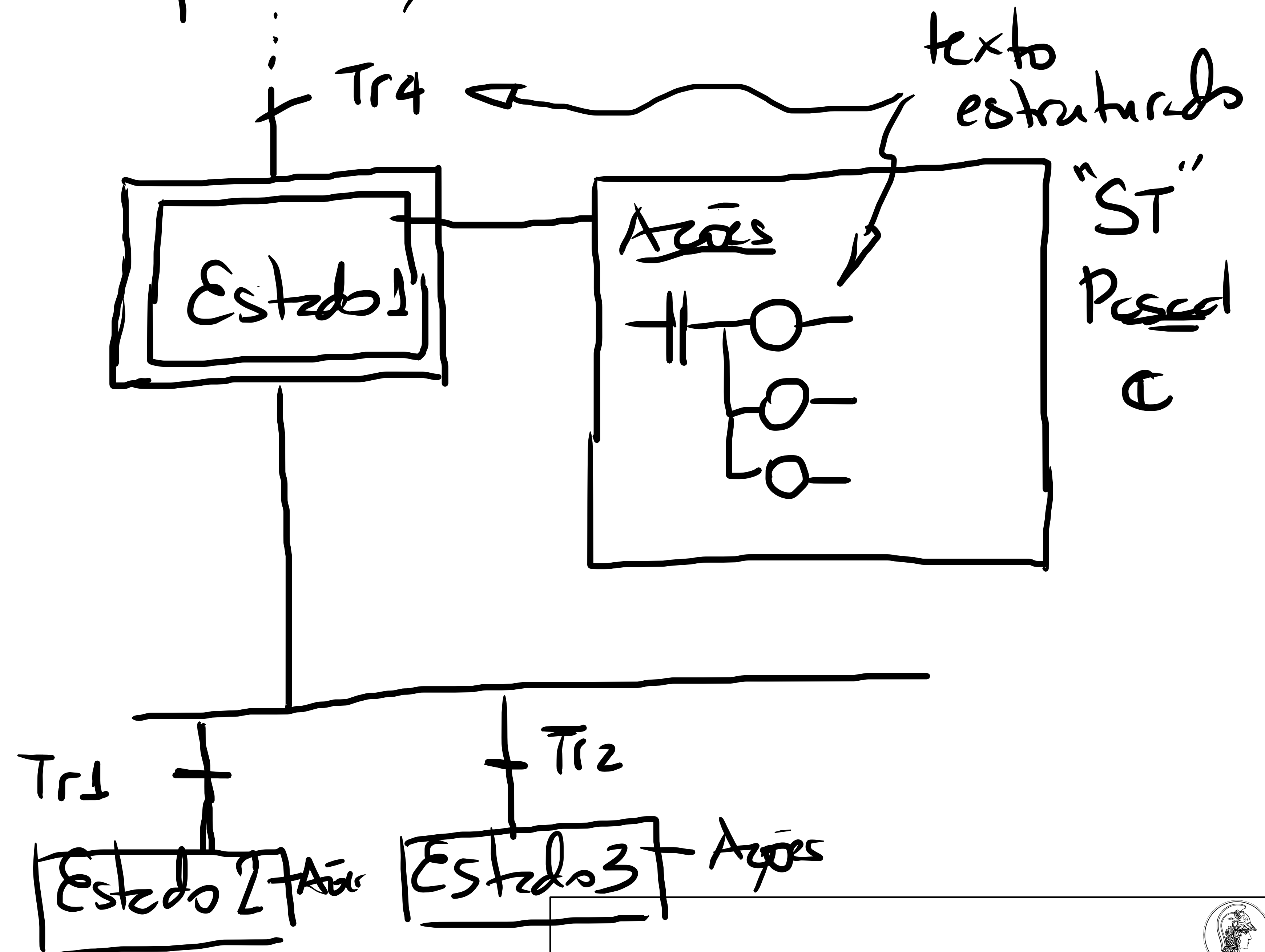
- Graficet
- Cenários com exduções de estados de planta \rightarrow sequenciamento

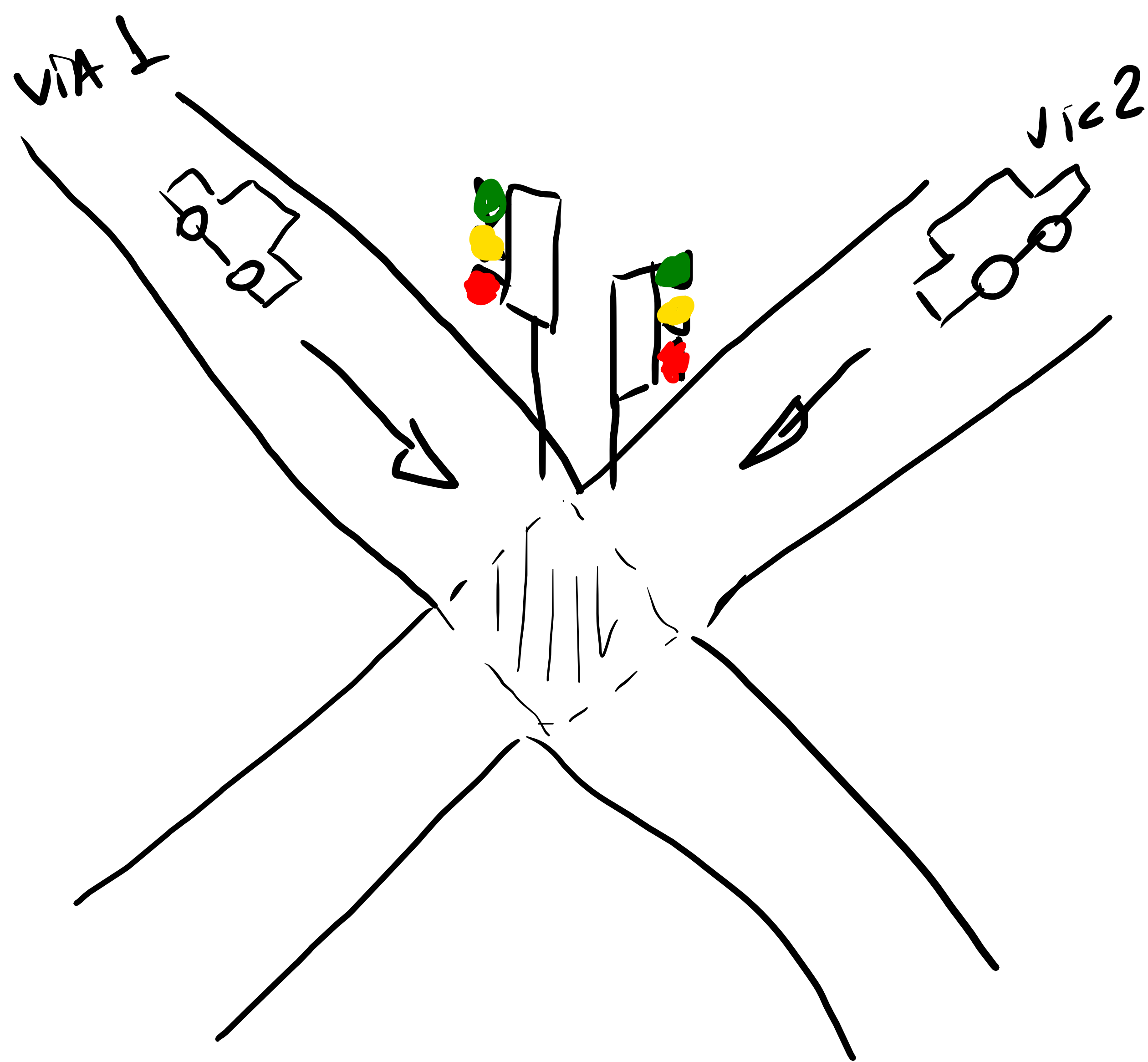


- Estado inicial = $\langle \rangle$!= ==
 := =

- Em cada estado \rightarrow executar ações

- Representação de IEC 61131





1) Usar um CLP p/ automação semáforos!

2) 6 saídas

- vic 1 { VM, VD, AM
- vic 2 { VM, VD, AM

3) Regras - 4 configurações

4) SCADA - escolher uma das configurações

- I) vic 1 c/ tráfego parado
 $t_{VD_{vic1}} > t_{VD_{vic2}}$
- II) vic 2 c/ tráfego parado
 $t_{VD_{vic2}} > t_{VD_{vic1}}$
- III) vic 1 e vic 2 c/ mesmo tráfego
 $t_{VD1} = t_{VD2}$
- IV) "medrujado" amarelos piscantes!

$t_{AM1} = t_{AM2} = 80 [s]$

conf	I	II	III
vic 1	$t_{VD1} = 20,0 [s]$	$t_{VD1} = 12,0 [s]$	$t_{VD1} = 15 [s]$
vic 2	$t_{VD2} = 12,0 [s]$	$t_{VD2} = 20 [s]$	$t_{VD2} = 15 [s]$

bobes → I II III IV

sincronização p/ usnomo.

V

$t_{VM1} = ?$ $t_{VM2} = ?$
para cada configuração I, II e III

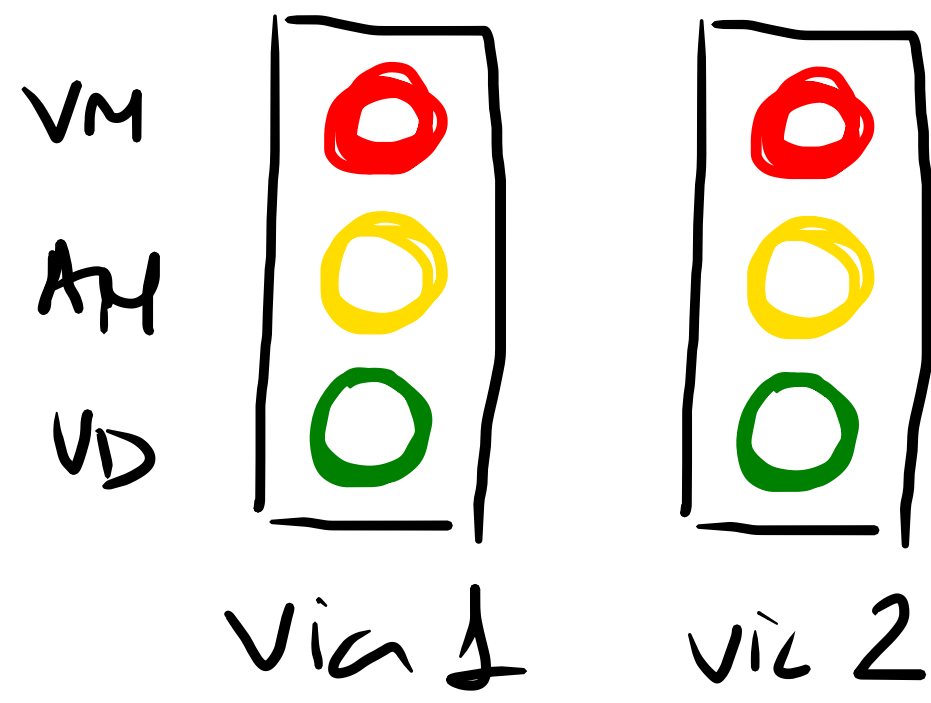
5) Botão partida e parada SCADA.

8:50h

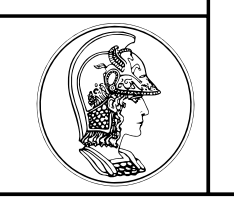
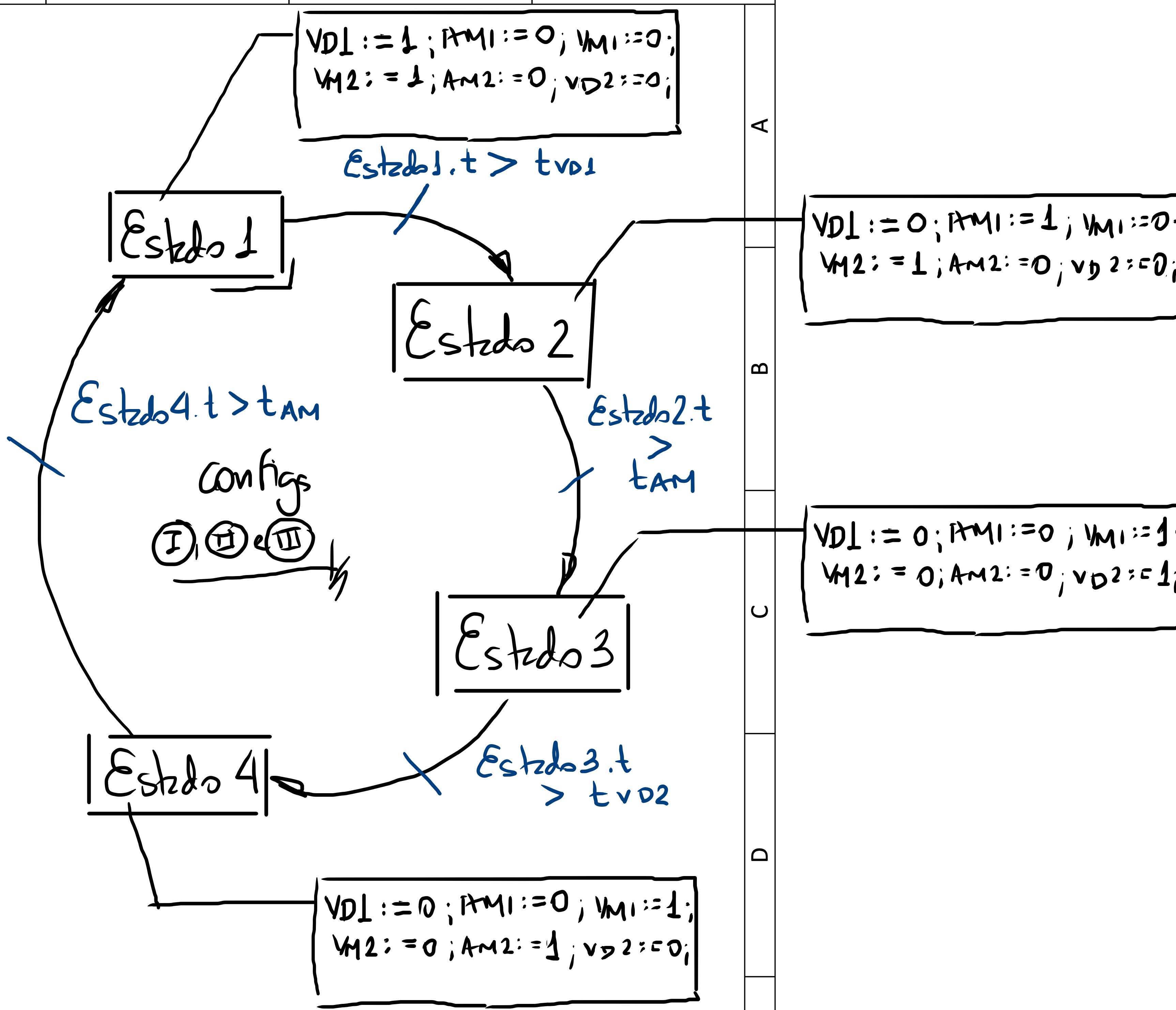
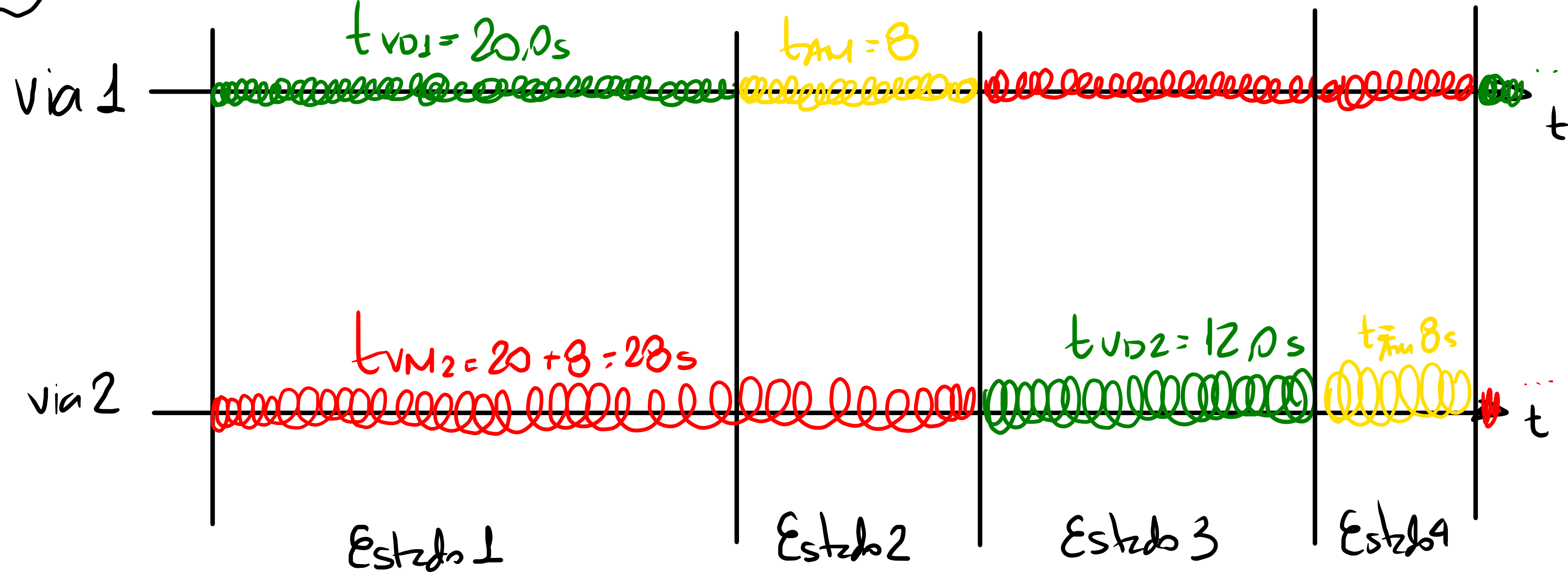


$$t_{AM1} = t_{AM2} = 80 \text{ [s]}$$

conf	ⓐ	ⓑ	ⓒ
via 1	$t_{VD1} = 20,0 \text{ [s]}$	$t_{VD1} = 12,0 \text{ [s]}$	$t_{VD1} = 15 \text{ [s]}$
via 2	$t_{VD2} = 12,0 \text{ [s]}$	$t_{VD2} = 20 \text{ [s]}$	$t_{VD2} = 15 \text{ [s]}$



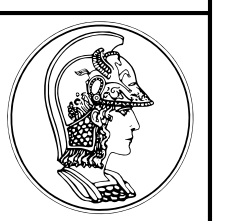
Conf 1



	1	2	3	4	5	6	7	8	9
A									
B									
C									
D									
E									



	1	2	3	4	5	6	7	8	9
A									
B									
C									
D									
E									



	1	2	3	4	5	6	7	8	9
A									
B									
C									
D									
E									

