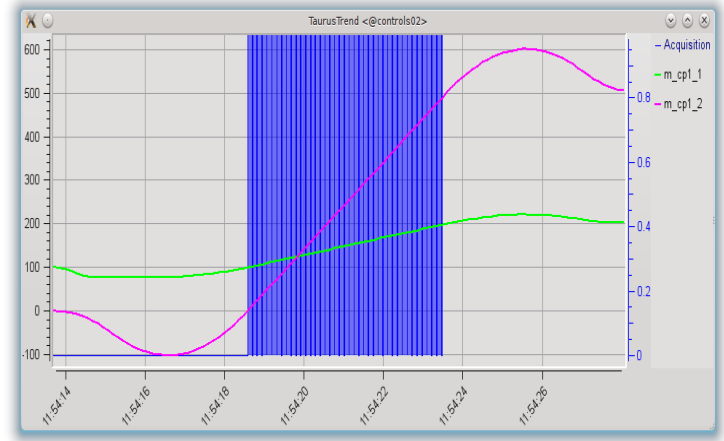
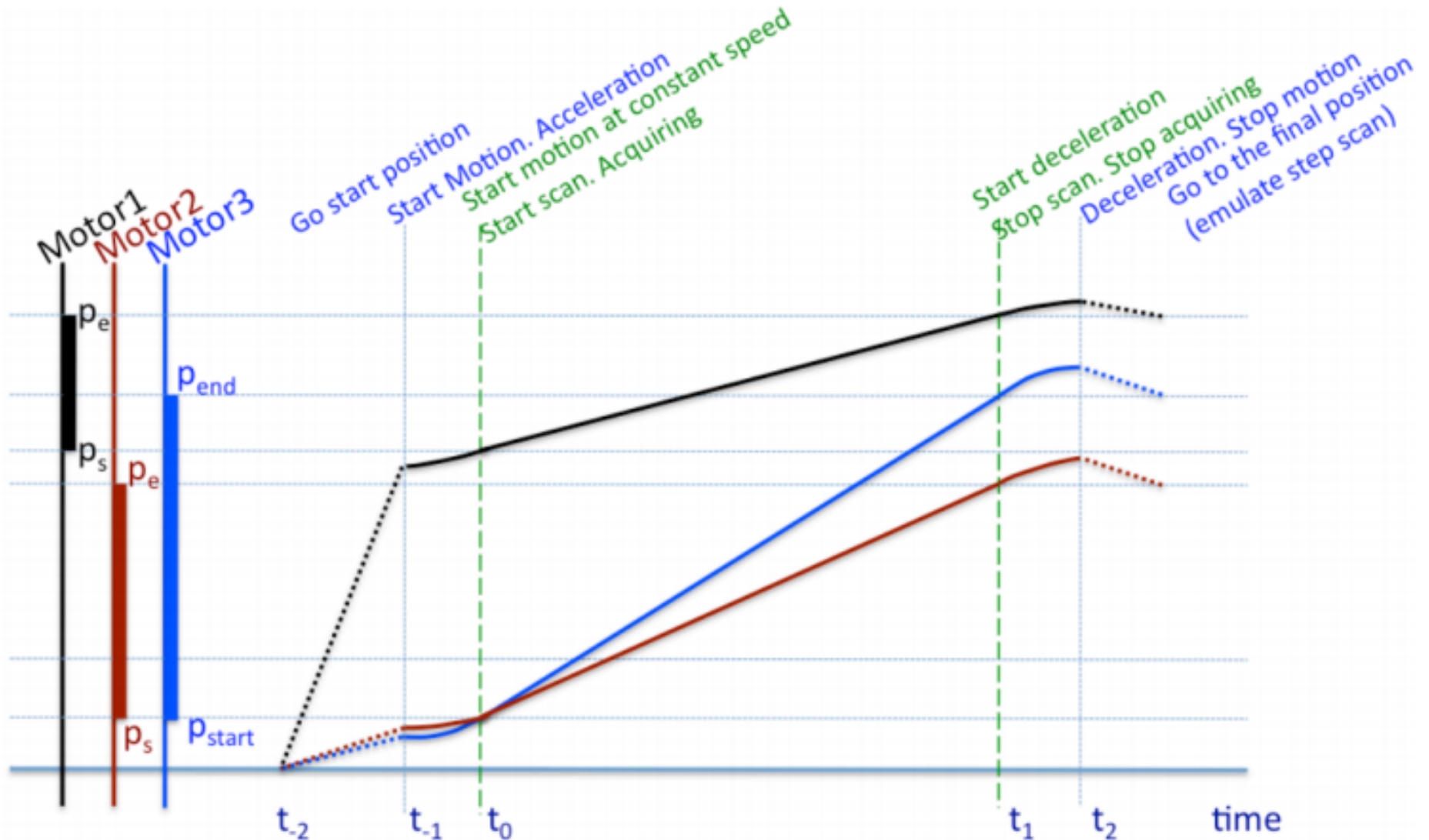


*Motion & acquisition during the step scan.*

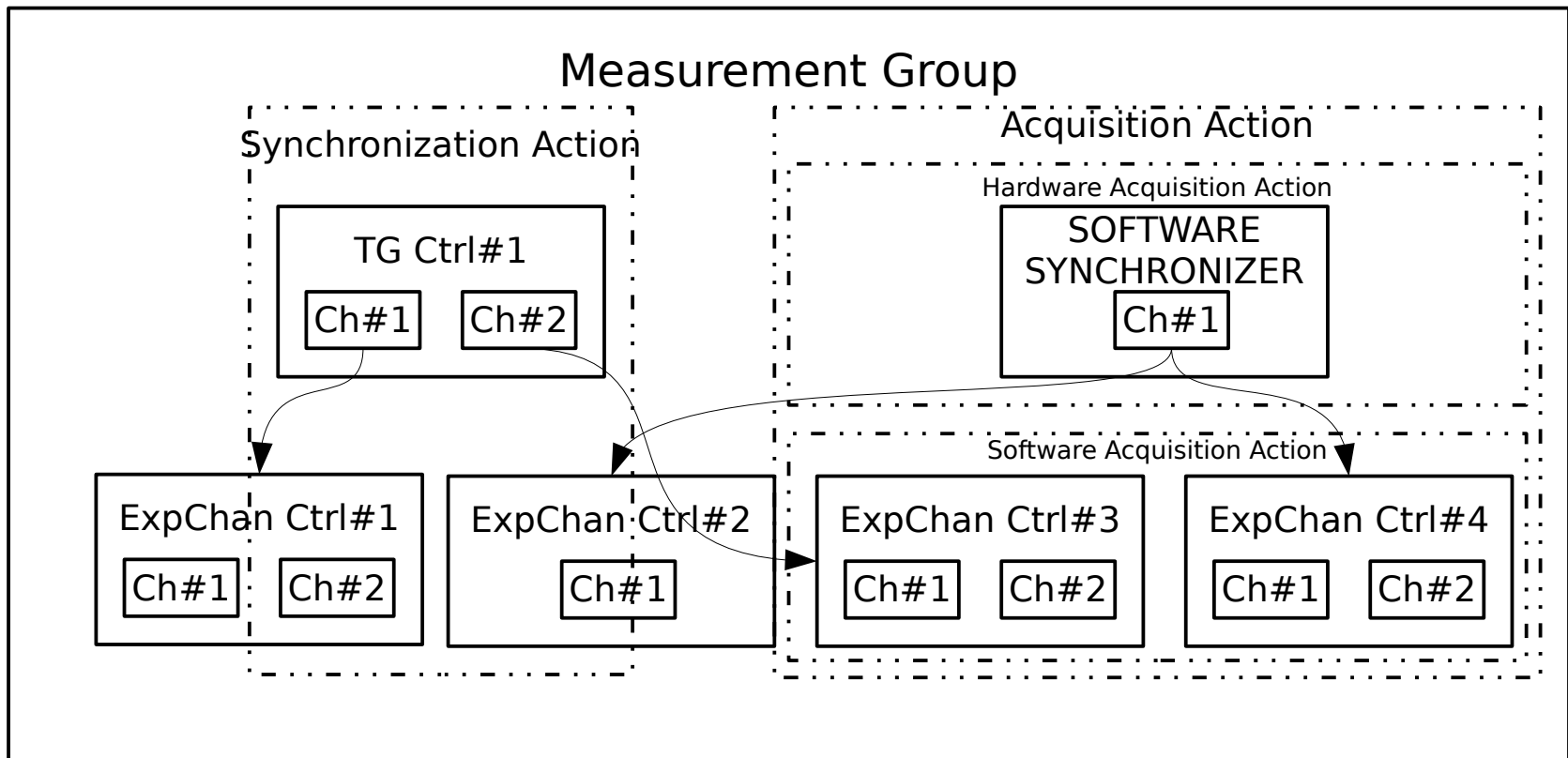


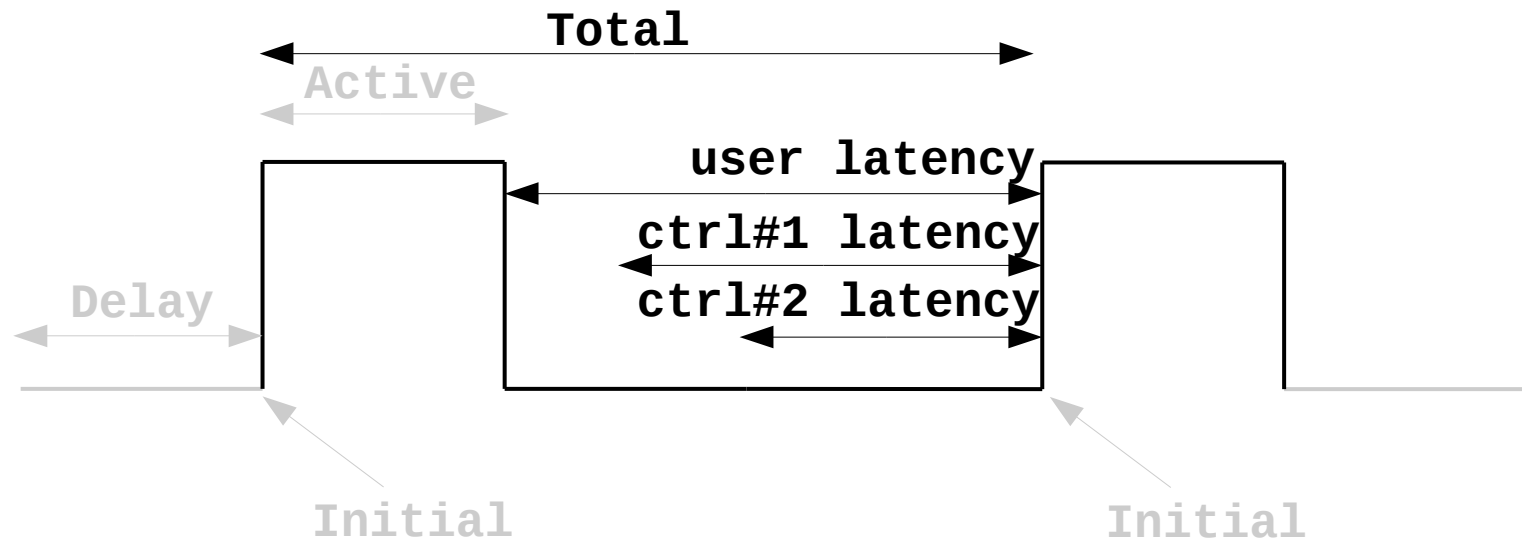
*Motion & acquisition during the continuous scan*

- Continuous scans give many benefits, but also their implementation is challenging.
- Numerous ad-hoc implementations were developed over years, but they are hard to reuse...
- What do we focus on?
  - Abstract access to the hardware
  - Generic synchronization description (hardware & software; time & position)
  - Common experiment configuration (step scan & continuous scan)
  - Transparent user experience with the scans: scan inputs and outputs.

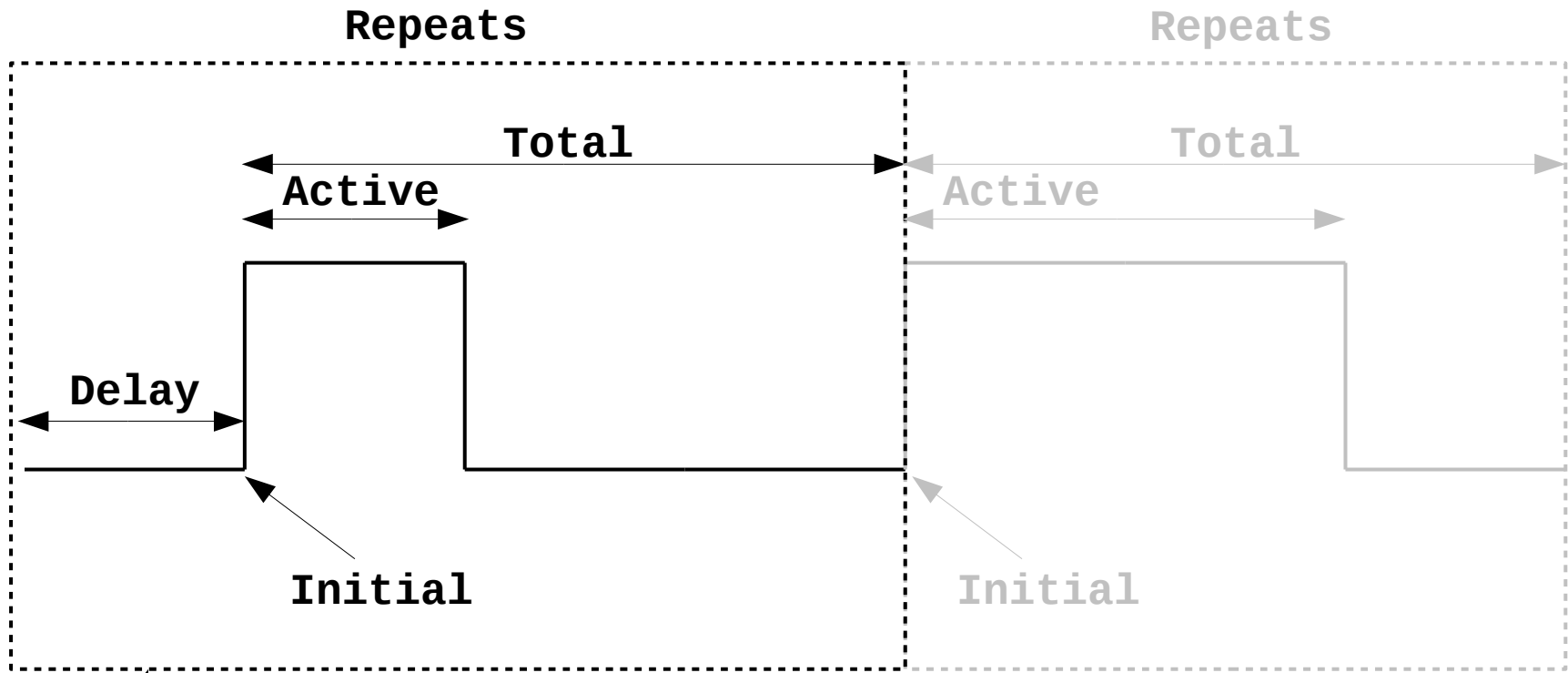


- Measurement Group contains channels and synchronizers
- Coordination using *acquisition* and *synchronization* actions





- **MG latency time** – maximum of its controller latency times
- Controller's latency time – time necessary for rearming
- Affects directly total interval (time) and indirectly motors' velocities.



**Group**

```
[{Delay: {Time: 0.3, Position: 400},
  Initial: {Time: None, Position: 0},
  Active: {Time: 0.1, Position: 10},
  Total: {Time: 0.15, Position: 15},
  Repeats: 1000},
...]
```