Synergies between muon projects - discussion

- Cold muon beam applications (besides NF/MC):
 - **☐**Mu2e or COMET upgrade (event rate in detectors?)
 - muSR, medical applications, material detection

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- What are the optimum beam designs for next generation muon experiments based on current and future proton beams?
- What proton beam power on target is needed (as a minimum)?
- What proton energy is needed?
- Can your project benefit from ionization cooling, frictional cooling or both?
- Can we design the capture/front end system, which would be beneficial for many experiments?

	Project 1	Project 2
Proton energy		
Proton time structure		
Target type/technology		
Pion capture energy		
Pion capture technology (solenoid, horn, backward or forward, etc.)		
Muon energy at the input to the front end		
Muon output energy from the front end		

	Project 1	Project 2
Beam manipulations in the front end (RF, collimation, matching, bunching, phase rotation etc.)		
Muon beam time structure at the output from the front end		
Is/could cooling be beneficial?		
Is/could acceleration/deceleration be beneficial?		
Muon intensity required for the experiment/project		
Other comments		
Please send us the information on your muon	project/experiment:	

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