Some musings

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Several Continuous Process Improvement Loops

- For each process of importance
Several Continuous Process Improvement Loops

- For each process of importance
  - Safety analysis
  - Hazard analysis
  - Real-time guidance
  - Deviation detection
  - ...

- Process Execution Monitor

- Process Execution Events

- Validated Process Model

- Smart Checklist

- Inputs/Outputs BloodProduct
  - May throw BloodProductExpired

- Either outputs VitalSigns along with LungSounds or throws TransfusionReactionSuspected

- Handles TransfusionReactionSuspected
  - Needs another nurse and the patient
  - Outputs BloodProduct
  - May throw BloodProductCheckFailed

- Needs the patient
  - May throw InfoNotMatch
Several Continuous Process Improvement Loops

- For each process of importance for collections/communities of patients/clients/students
Several Continuous Process Improvement Loops

- For collections of institutions/individuals employing the system

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- May throw BloodProductExpired
- Either outputs VitalSigns along with LungSounds or throws TransfusionReactionSuspected
- Handles TransfusionReactionSuspected
  - Needs another nurse and the patient
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  - Needs the patient
  - May throw InfoNotMatch
For the **cyber-social learning system** itself

- Not just improving the processes we are studying, but improving the learning environment that helps improve those processes
Who proposes the improvements?

- CSLS provides info to experts who propose improvements
- CSLS proposes improvements, validated by experts
- CSLS automatically *learns* to be a better system
Major Cross Cutting Concerns

- Testing and Verification
- Privacy
- Security
- Continuous monitoring and validation