

Models/tools selection and priorities for onboarding

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CCMC inclusive and inviting approach to model selection

- The CCMC provides opportunities to developers to expose their models, tools and forecasting techniques to space weather research and operational communities.
- There should be a path for all models and applications with potential to
 - advance understanding of space weather phenomena;
 - advance operational space weather capabilities
- There is no need to impose an upper limit on a total number of models hosted at the CCMC. CCMC resources can be kept under control by
 - building a modular, flexible system utilizing smart technologies for on-boarding and upgrade (presentation by Rick Mullinix).
 - defining best practices for on-boarding and communicating them to developers (presentation by Lutz Rastaetter)
 - priority **queuing** approach based on required resources and anticipated impact on innovation

Thresholds for required resources

Resource categories	CCMC staff time	CPU	Storage
Resource thresholds			
Below medium threshold	Low	Low	Low
Below high threshold	Med	Med	Med
Above high threshold	High	High	High

Examples of high impact models & tools

- Deliverables from CCMC stakeholder funded proposals (e.g., LWS program).
- Models identified as high priority by space weather operational agencies
- Models and tools identified as high priority to address NASA's missions science and space weather needs.
- Special requests from research communities (e.g., GEM, CEDAR, SHINE).
- Models and tools mentioned in NASA MOUs with international partners.
- Recommendations from the CCMC advisory group.

Priority queuing for on-boarding/upgrade

- **Priority 1: High impact**

- Can exceed High thresholds in any category (about 10-20% if CCMC models are in this range)
- CCMC communicates with developers beginning early stages of development.
- CCMC provides support in interfacing with CCMC systems and in implementing best practices.

- **Priority 2: Fast track**

- Low resource range for all categories

- **Priority 3: Regular waiting list**

- Exceed medium thresholds in one of the resource categories
- Medium impact

- **Priority 4: Slow waiting list**

- Exceed high thresholds in one of the resource categories
- Medium impact