

Group 4: Community Engagement & Collaborative Development

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Who is the community served by CHyMP? Should this community extend beyond the academic institutions who are members of CUAHSI?

- CHyMP necessarily must include academia, government and private sector to embrace and impact the full scope of hydrological modeling activities.



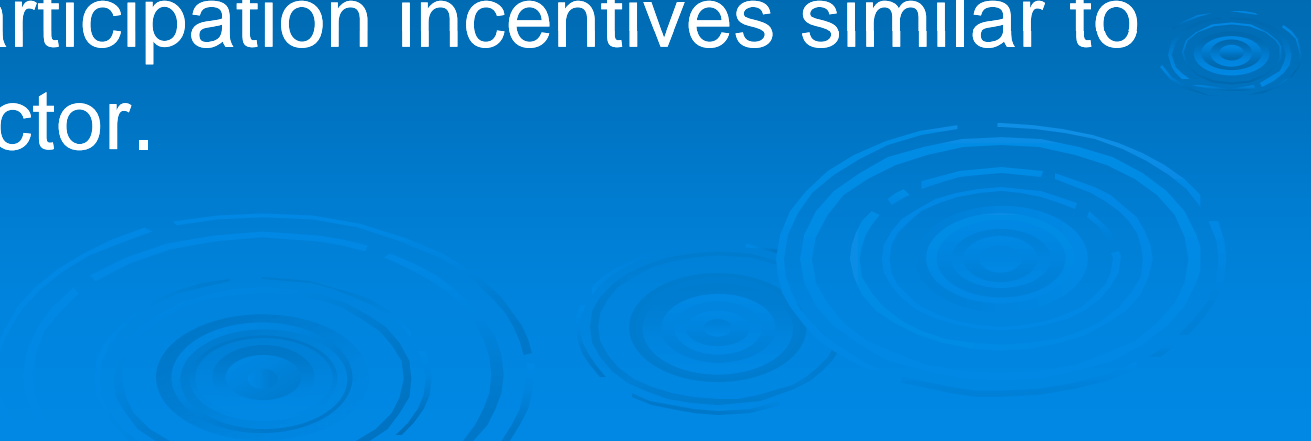
What is the role of Federal Agencies? Can the mission-specific modeling goals from a wide range of government agencies be provided within CHyMP?

- Federal Agencies should be full partners in CHyMP. We recommend that CHyMP (and CUAHSI) seek support from agencies in addition to NSF.
- Incentives for CHyMP participation by Federal Agencies:
 - Capture the vast intellectual effort of the academic (e.g. students) and industrial sectors on evaluating, debugging, testing agency and other codes for the benefit of all.
 - Accelerate innovation in agency codes (help to cross the “valley of death” of transitioning research to operations)
 - The CHyMP community of practice can “raise the bar” by encouraging “best modeling practices” through promoting standards, metrics/test cases, open source and software engineering (e.g., CMM) principles such as version control, documentation, testing, configuration management.
- Legal/intellectual property/software release issues would need to be addressed

Some of the best software available to the hydrology community is distributed under commercial license, and using this software in a HPC setting would benefit many applications. What is the role of commercial software on CHyMP?

- Does CHyMP require open source?
 - No. Would prefer to follow a “natural selection” model than an “exclusionary” model. CHyMP should be a positive force to support open source principles that sometimes run counter to university tech-transfer/royalty generation goals.
- How do we handle non-open source commercial libraries (e.g., solvers)?
 - Could have a software catalog with “ratings” including submitted, under review and approved. Non-open source software could be “submitted” but not reviewed.

What is the role of private industry? Should CHyMP provide capabilities required by hydrologic consultants? Should CHyMP be available at no cost for use by consultants who are getting paid for the results?

- Similar to Federal agencies, industry should be a full partner in CHyMP
 - CHyMP should be available at no cost.
 - Want to avoid serving as an advertising platform for industry products/services.
 - Industry participation incentives similar to Federal sector.
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CHyMP should evolve with time. How should this growth be managed? Who should do it, and what management structures should be considered?

- Other agencies and industry should be engaged immediately in CHyMP
- Structures similar to ESMF's change review board and advisory board should meet regularly, solicit community input and publish recommendations.
- CHyMP must connect to other modeling communities of practice (ATM, ECO, OCN, etc.)

How does CHyMP provide user support?

- CHyMP should embrace the Web2.0 model and provide infrastructure to support and enhance interaction (e.g, Wetpaint.com, Google sites).
- The individuals in the CHyMP community of practice assume responsibility for posting, documenting and supporting their codes through peer-to-peer communication via bulletin boards, etc. The contributions of codes and documents will be properly recognized and cited for reference (e.g., e-Journal).
- CHyMP should provide and support capabilities for communication, searching and accessing software catalog, including contributed supporting tools such as IDL/Matlab, plotting scripts, etc.