



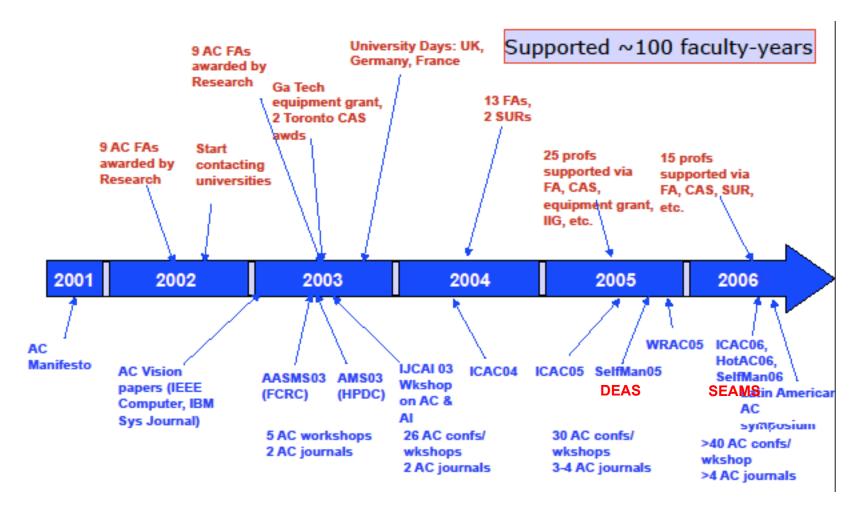
Is the Goal of Self-adaptive Systems Full Automation?

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AC Formative Years: IBM Perspective*





We Lost the Human in the Loop!!

- In the early phase of AC, Human Interaction Studies topic was present
- At DEAS 2005, we had a session on "Interactions"
- In ICAC community, "human interaction studies, never prevalent, became extinct in 2006"*
- At SEAMS, after 2006, human interactions studies became (almost) extinct
- What is the risk?



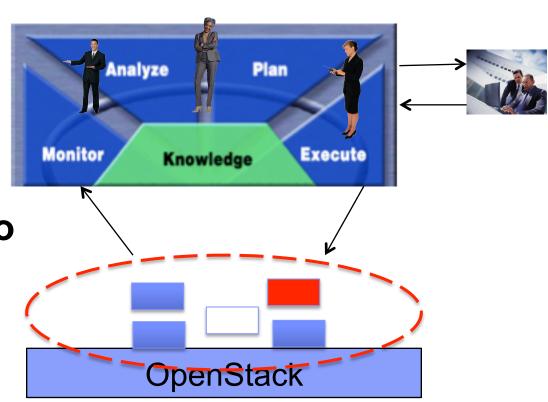
Model Predictive Optimization: Simplified View**

- I delegate the financial/investment decisions, procurement, trade-off analysis, forecasting, etc.. to an unsupervised program
- This breaches most companies policies



Towards a Human Centric MAPE-K Loop

- Consider the users
 - Operations teams
 - Developers
- Add the "K" back to the MAPE loop





Industry Trends: DevOps

- DevOps: promotes the idea of strong collaboration among Development and Operations teams
- NoOps means developers can code, deploy, manage and maintain the application
 - automated systems (PaaS like Cloud Foundry, BlueMix) manage app lifecycles; no Operations teams
- Adataptation is one of the main aspects of DevOps/Noops

