NOAA's EARTH PREDICTION INNOVATION CENTER:

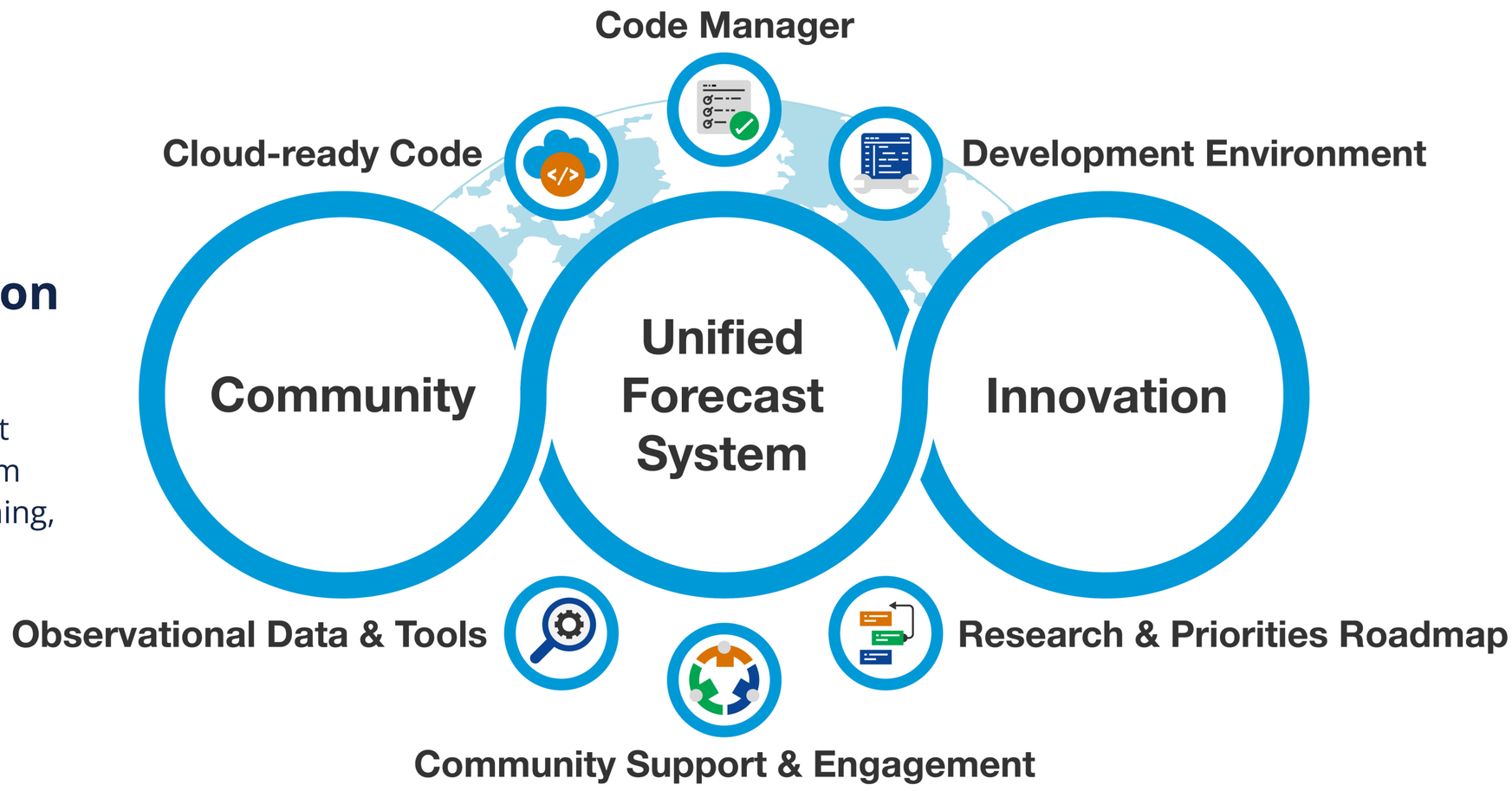
Empowering Forecasting Innovation Through Community Engagement and User Support

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1. EPIC Community Engagement Team, 2. EPIC User Support Team, 3. EPIC Office of the Chief Engineer

What is the Earth Prediction Innovation Center (EPIC)?

EPIC is a NOAA-led program that fuels the Unified Forecast System via user support, hands-on training, and community engagement.



From Earth Prediction Novice to Advanced User

New User → Journeyman User → Advanced User

Community + Unified Forecast System





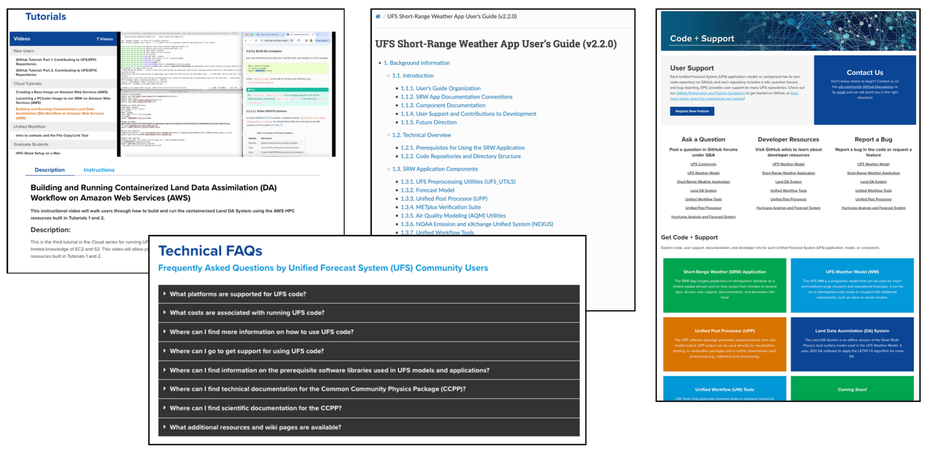


Innovation

Coupled JEDI to UFS, enabling JEDI to run UFS-based ensemble forecasts and compute an LETKF analysis (a type of Data Assimilation) without any I/O

Integrated Stochastic Physics CI/CD improved automated unit testing, analytics, and results archiving on AWS, enhancing bug detection and code quality. This benefits the community by making testing more efficient and reliable, leading to better scientific outcomes and streamlined workflows.

Improved User Support strategy integrates dedicated members into GitHub and other support tools, allowing for rapid assistance or quick direction to necessary resources or experts to resolve community UFS issues quickly and efficiently.



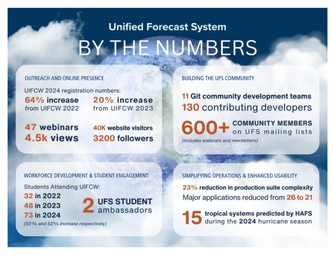
Community Engagement

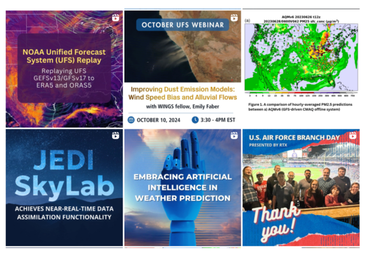
Engaging with the community is crucial for bringing in diverse viewpoints and improving capacity in U.S. weather forecasting and modeling

STRATEGIES	TOOLS
Community Portal and Resources	EPIC Information, News and Events; Get Code, Tutorials
Webinars and Workshops	UIFCW, AGU, AMS; Talks on model development, data analysis
Publications and Newsletters	Latest developments; Articles on news and impact; Guides and technical documents
Community Events	Application Training; CodeFests
Outreach	Increase awareness of EPIC, UFS; Targeted communication; Collaboration with stakeholders
Social Media Campaigns	X, Instagram, Facebook, Linkedin

PRODUCTS







105TH ANNUAL MEETING 12–16 JANUARY NEW ORLEANS & ONLINE AMERICAN METEOROLOGICAL SOCIETY

AGU24 Washington, D.C. | 9–13 December 2024 — WHAT'S NEXT FOR SCIENCE



UIFCW24 A UFS Collaboration Powered by EPIC



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