

# Culture Change: NWP and Post processing revolutionizes the Forecast Process

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# Calibrated probabilities from Multi-Model Ensembles

Blend all available models and ensembles: NBM deterministic a first step

Shoot for ~1km resolution grids (many need finer resolution in urban areas and complex terrain)

Start with threshold probabilities. Example: Probability of hourly snowfall rates exceeding 0.5", 1.0", 1.5", and 2.0+" from 5 am to 9 am and 3 pm to 7 pm Monday through Friday

Eventually can provide complete PDFs if needed

# Continuously updating/evolving database

Continuously updating probabilistic database as new data and model output arrives. No one model is important. (Think Stock Market Index Funds. Value is using all the models, not trying to beat them)

Decision support is not at set 4 am/4pm forecast packages. Decision makers don't care when the 12z GEFS is available

Brief with the latest available forecast which is essentially automated (especially beyond 36 hours). The whole weather enterprise could use this same database to provide Decision Support Services for their customers

Forecaster expertise and value is in interpretive services (especially for hazardous weather), not in forecast production