



CDM

Collaborative
Decision Making

Strategic Flow Management Application (SFMA)

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En Route Requirements and Future Concepts



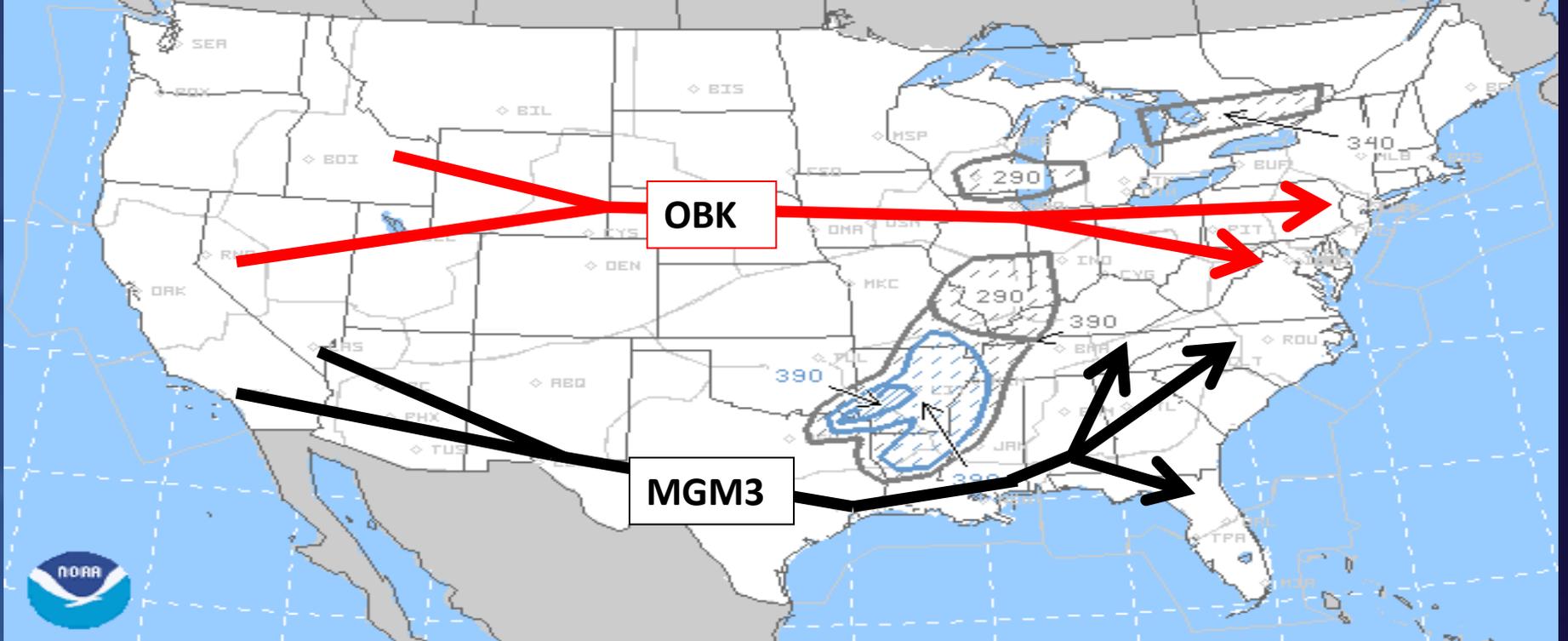
CDM

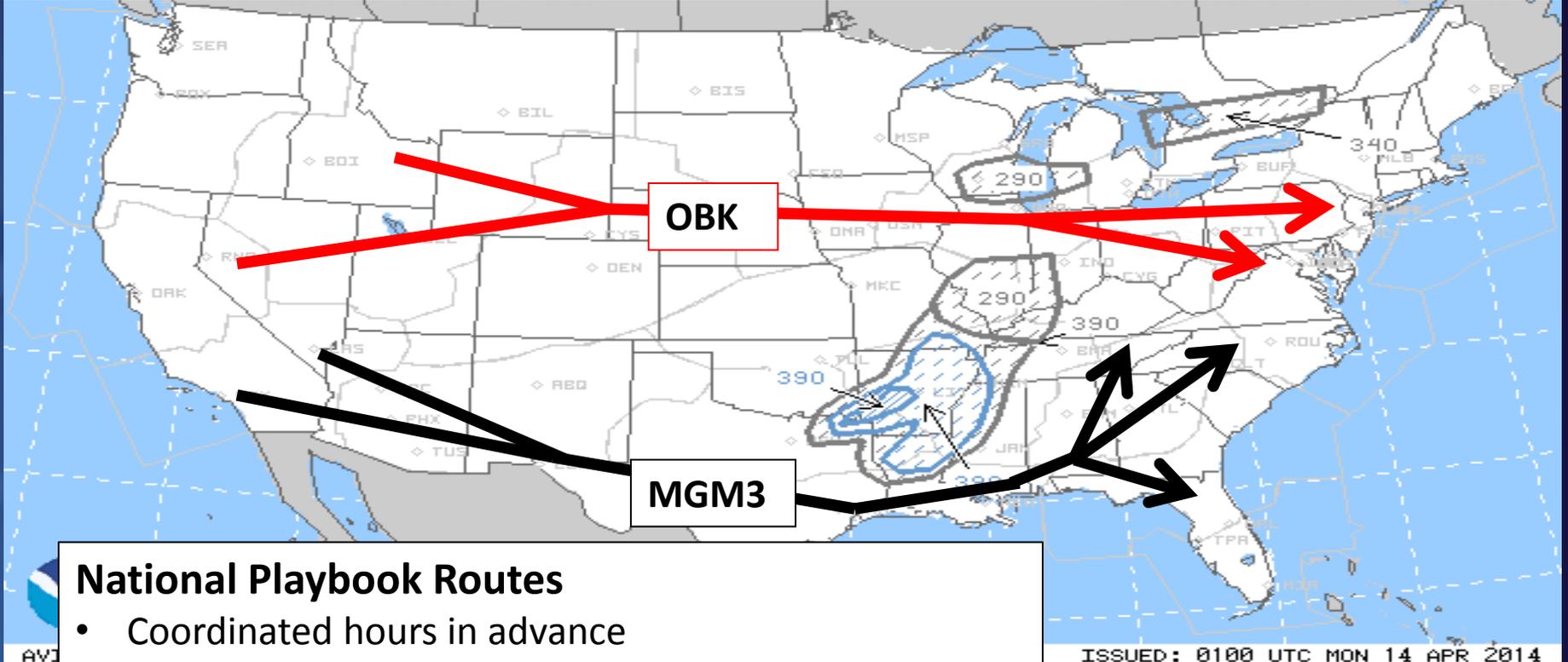
Collaborative
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**Overview of SFMA Capabilities: Legacy Case.
“National Playbook Routes”**







National Playbook Routes

- Coordinated hours in advance
- Based upon long-range forecast
- One size fits all
- Trigger challenges
- Difficult to recover



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#itwasacatch

Challenges of a More “Tactical” Response to NAS Constraints

The Four Challenges of a More “Tactical” Response to NAS Constraints

Flight Identification

Manual



Solution Generation

Manual



Clearance Delivery

Manual

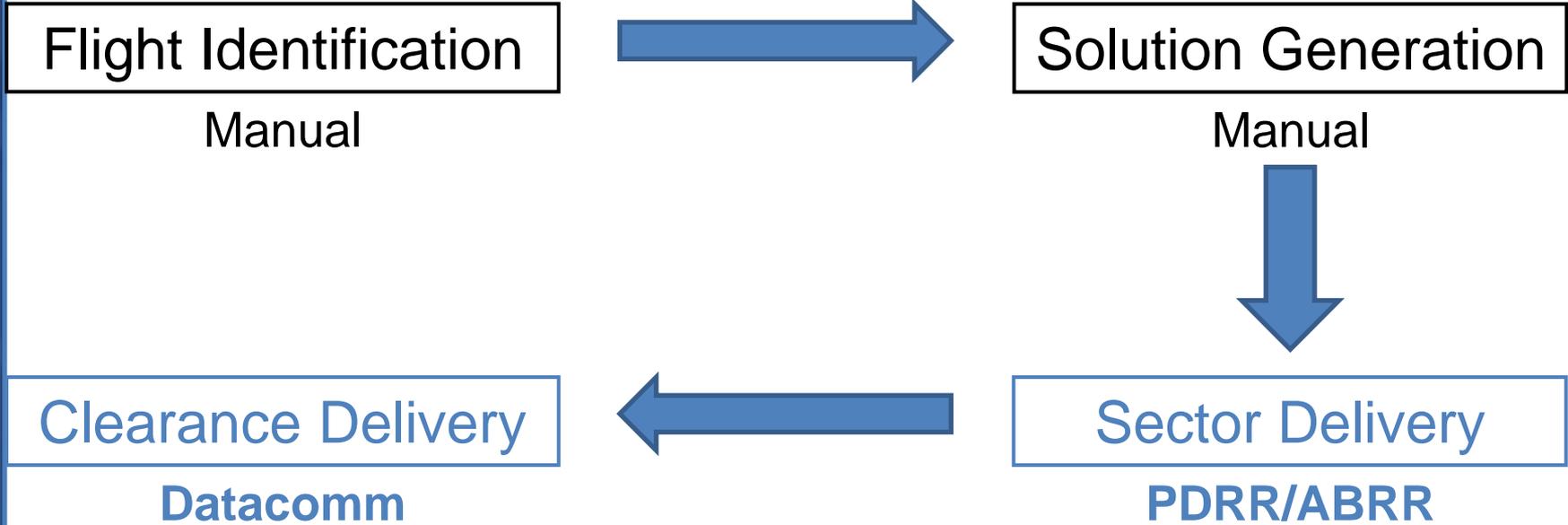


Sector Delivery

Manual



Technologies In Place ~2020



Strategic Flow Management Application

Flight Identification

SFMA



Solution Generation

SFMA



Clearance Delivery

Datacomm



Sector Delivery

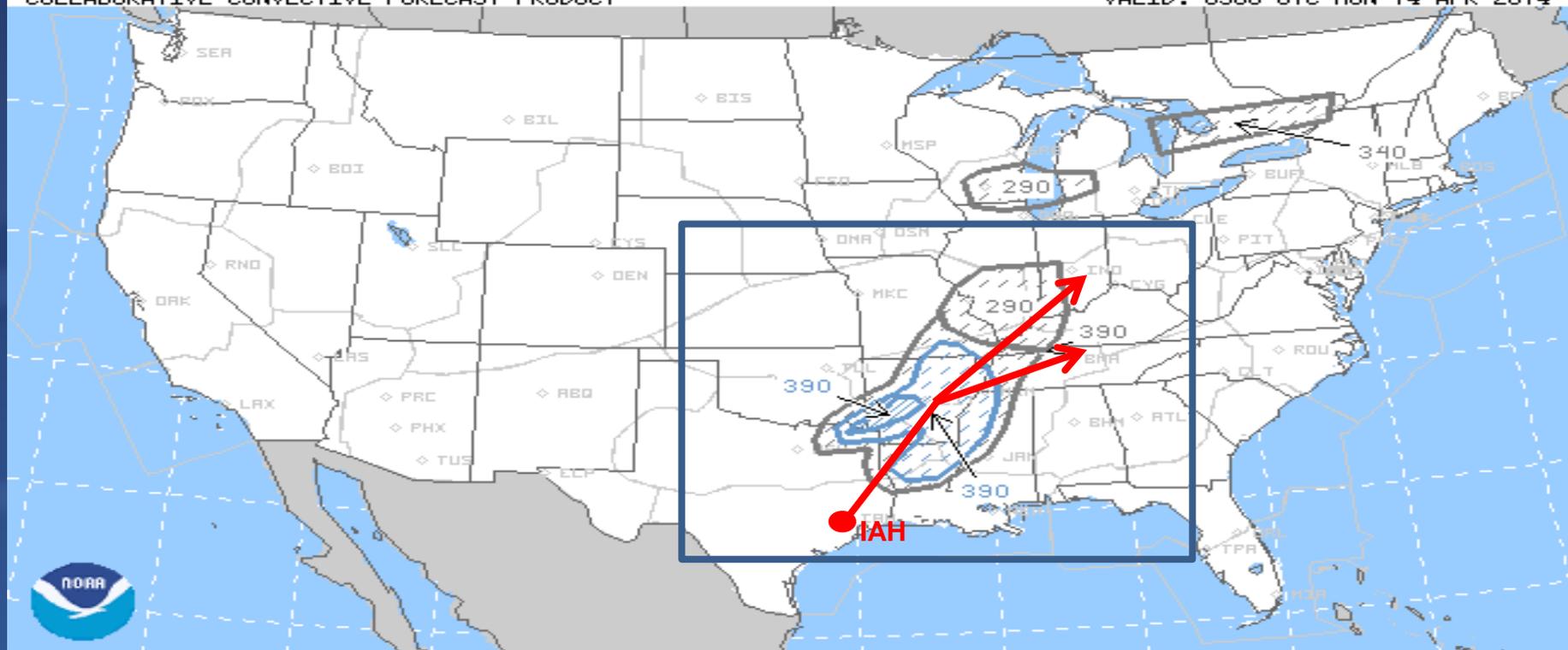
PDRR/ABRR



Strategic Flow Management Application

- **Processes ~20-90 minutes along the trajectory of the aircraft**
- **Identifies constraints: Weather / SAA's / Sector Saturation / etc.**
- **Develops solution options, considering...**
 - **Operator preferences**
 - **Traffic flows**
 - **Workload**
- **Seeks recovery opportunities where available**







Questions?

