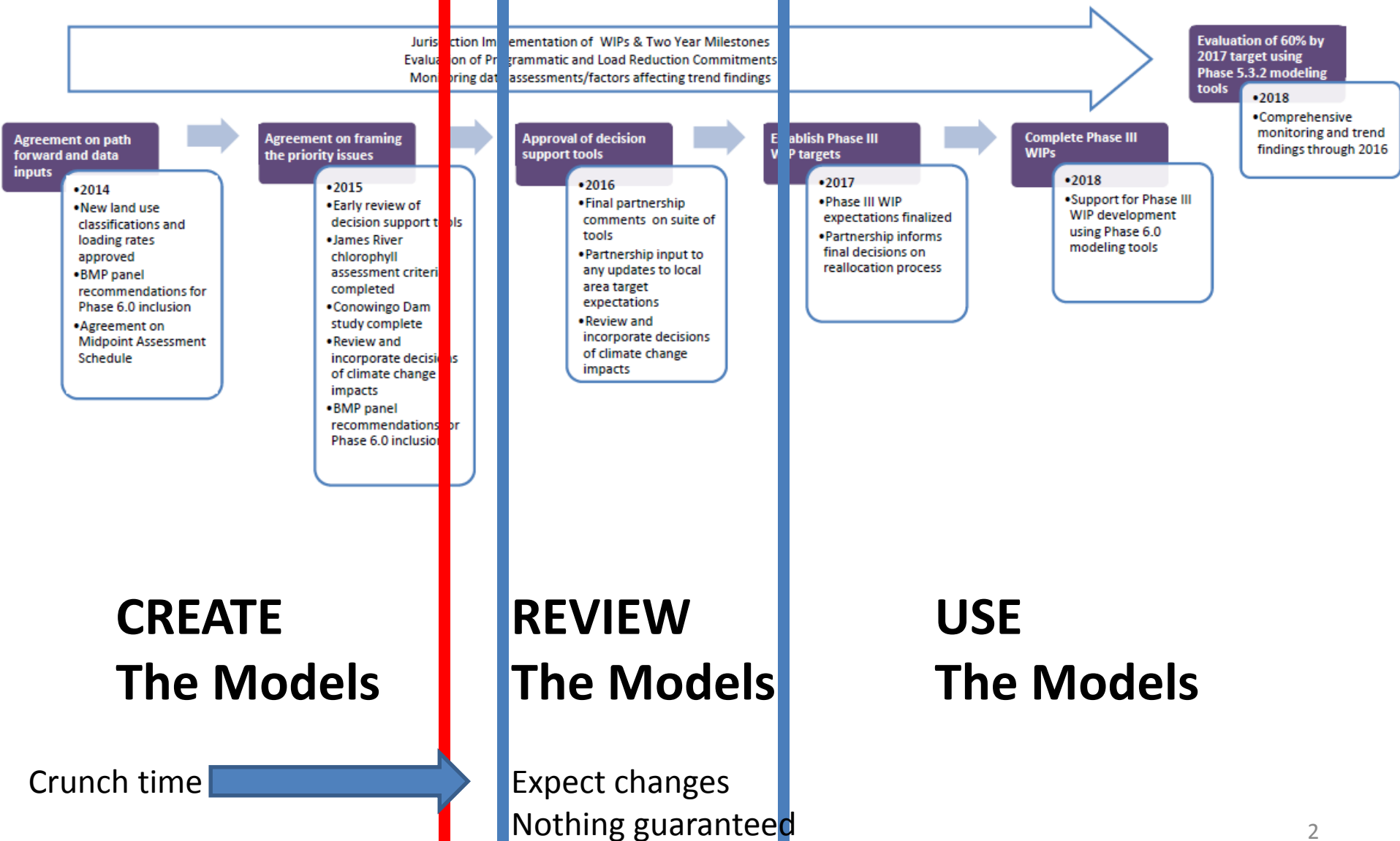


# **Watershed Model Progress toward the MPA**

Gary Shenk Modeling Workgroup 11/3/2015



## Midpoint Assessment Timeline



# Crunch Time – 10/1 – 12/20

- No new information from partnership past 9/30
- Lot of work to put all the pieces together
- Calibration



# Development Timeline

- **October 2014** – Rough Draft of major changes to nutrient processing in Scenario Builder will need to be complete. Continued sensitivity refinement
- **February 2015** - draft targets for draft land Uses
- **March 2015** – All major partnership decisions are made on changes to scenario builder processing and data. Scenario builder final modifications begin.
- **April 2015** - final targets approved by Modeling Workgroup for draft land uses
- **Early October 2015** – All inputs are final and delivered to the WSM by the scenario builder team for the final calibration run. Final targets are based on this information.
- **December 2015** - Phase 6 draft model is complete.
- **December 2015 – December 2016** - Evaluation followed by fine tuning during the next year. Key scenarios available
- **September 2016** – Final comments on the draft Phase 6 model
- **December 2016** - All models are final. The partnership decision-making process begins to discuss how these new models will be used in the WIP3 process

Finished

Potentially Finished

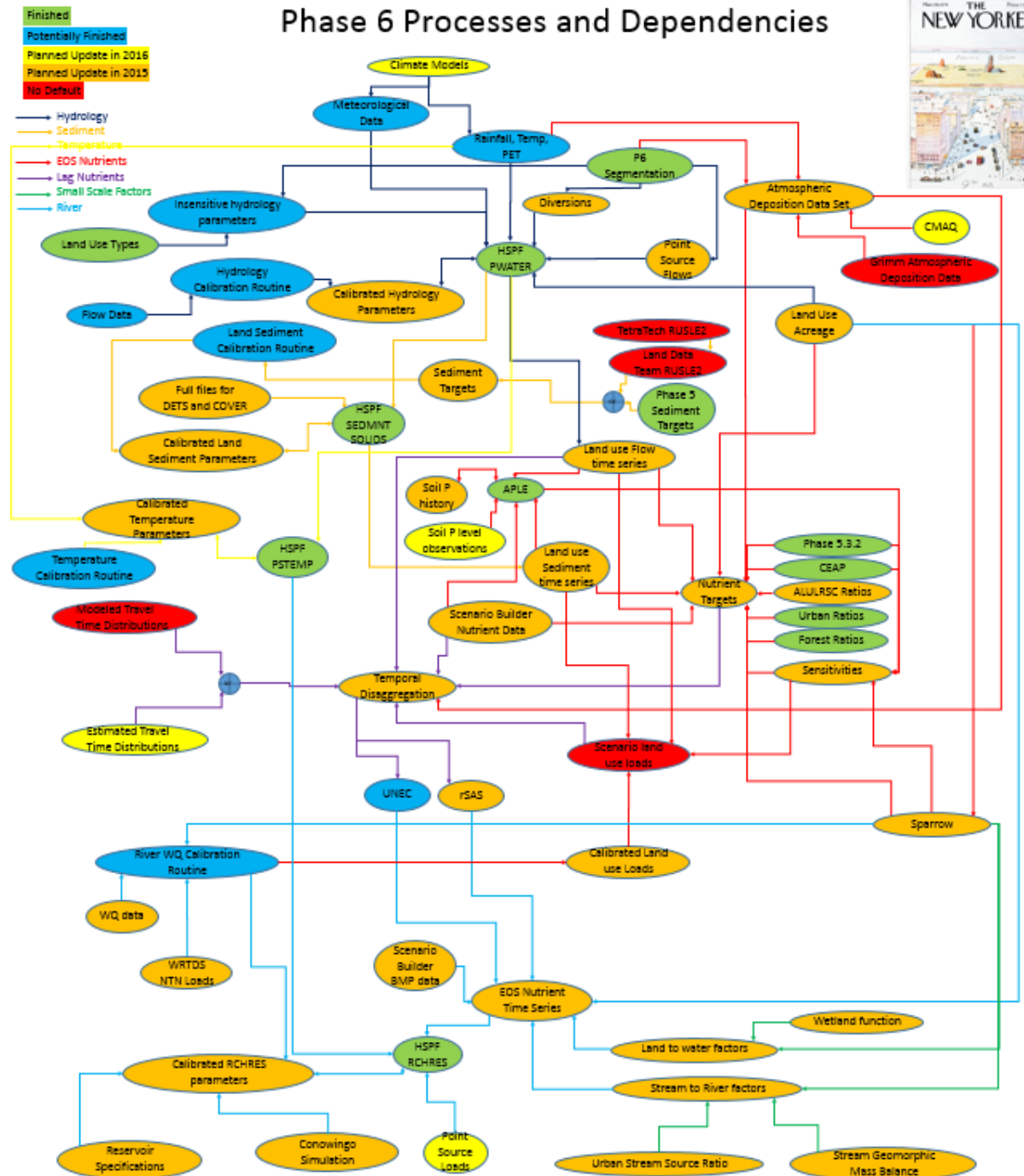
Planned Update in 2016

Planned Update in 2015

Area of Concern

Each box represents a dataset, model, or process

## Phase 6 Processes and Dependencies



7/21/15



Finished

Potentially Finished

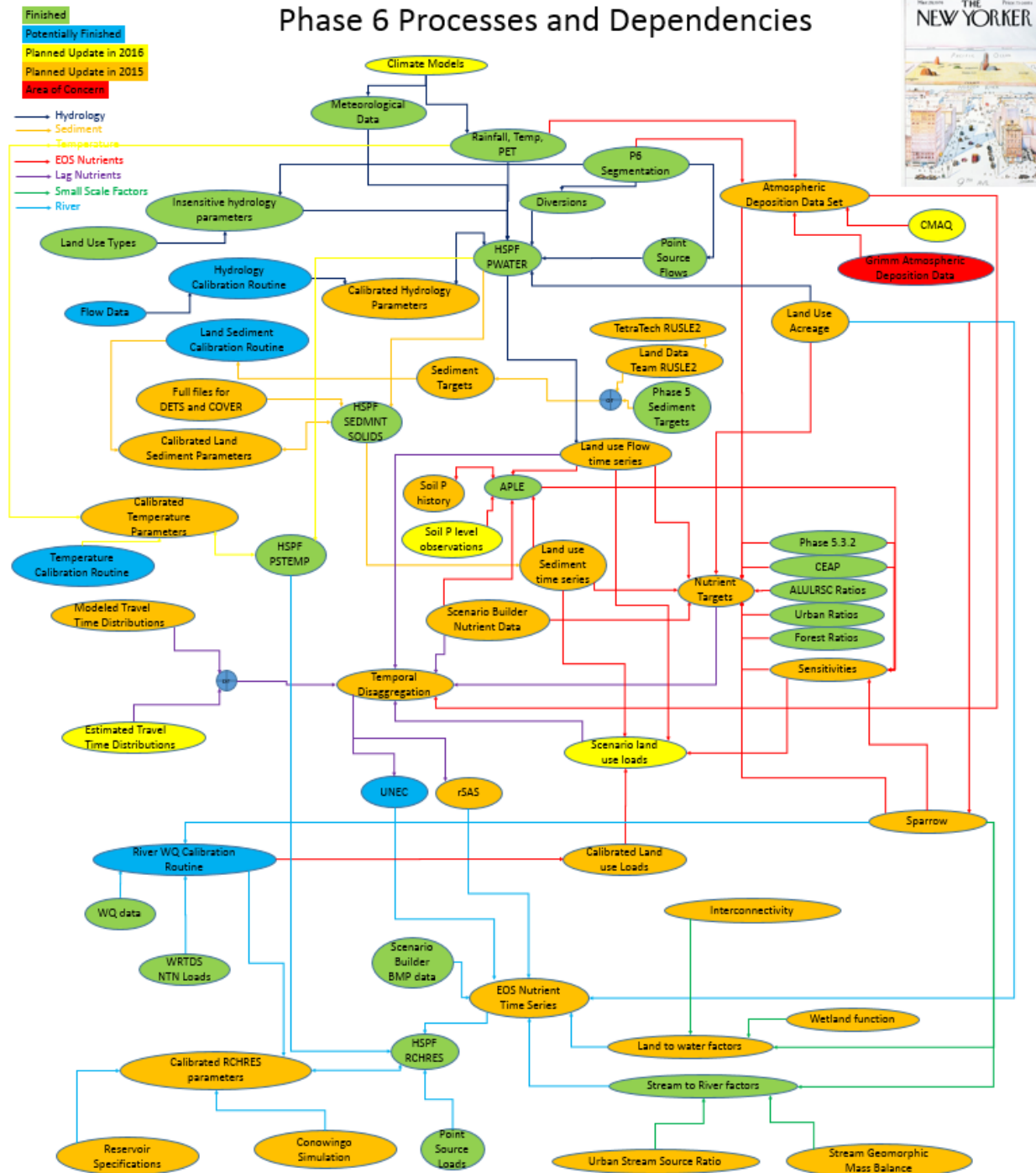
Planned Update in 2016

Planned Update in 2015

Area of Concern

Each box represents  
a dataset, model, or  
process

9/3/15



Finished

Potentially Finished

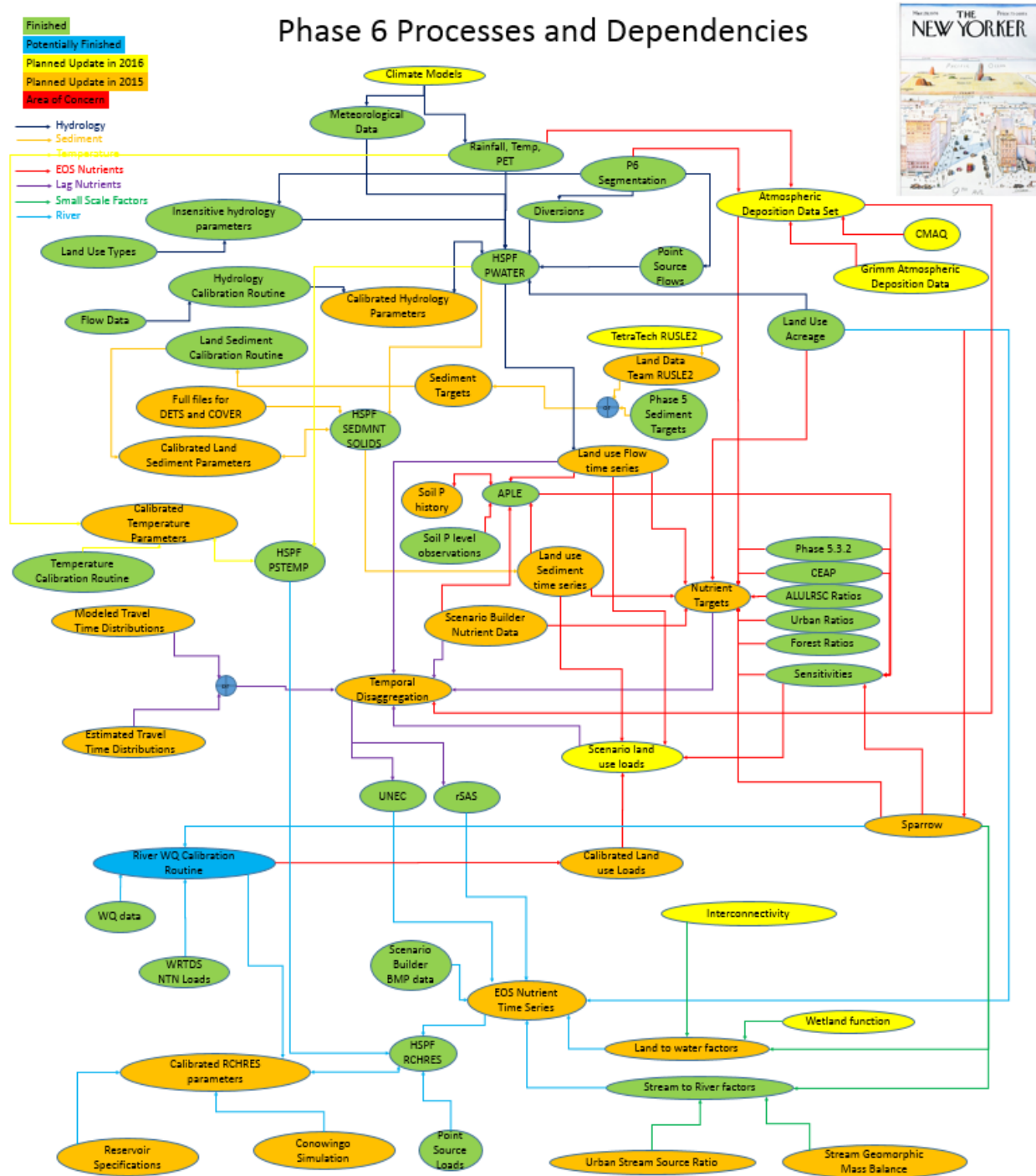
Planned Update in 2016

Planned Update in 2015

Area of Concern

Each box represents  
a dataset, model, or  
process

10/5/15



Finished

Potentially Finished

Planned Update in 2016

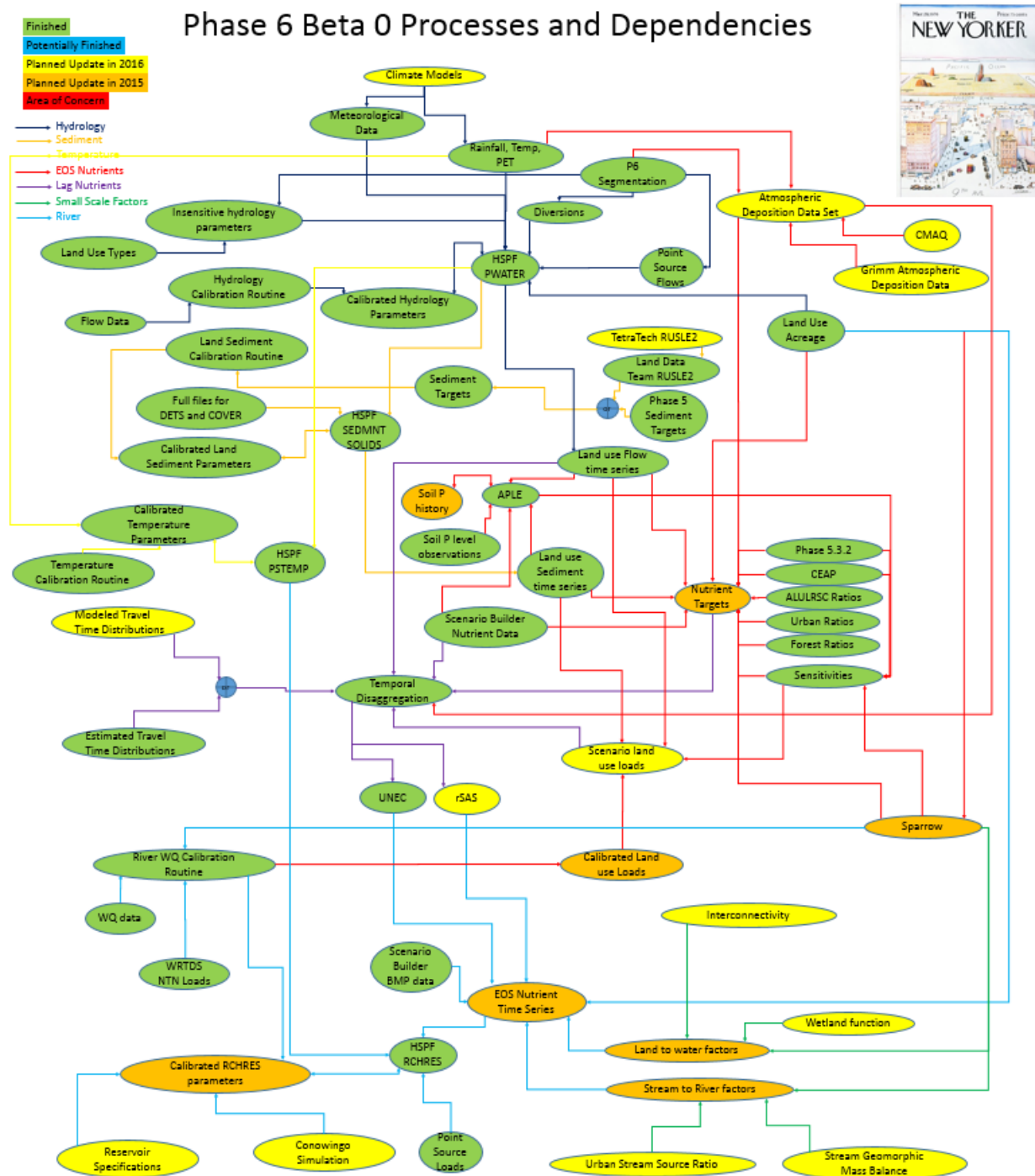
Planned Update in 2015

Area of Concern

Each box represents  
a dataset, model, or  
process

10/20/15

## Phase 6 Beta 0 Processes and Dependencies







Finished

Potentially Finished

Planned Update in 2016

Planned Update in 2015

Area of Concern

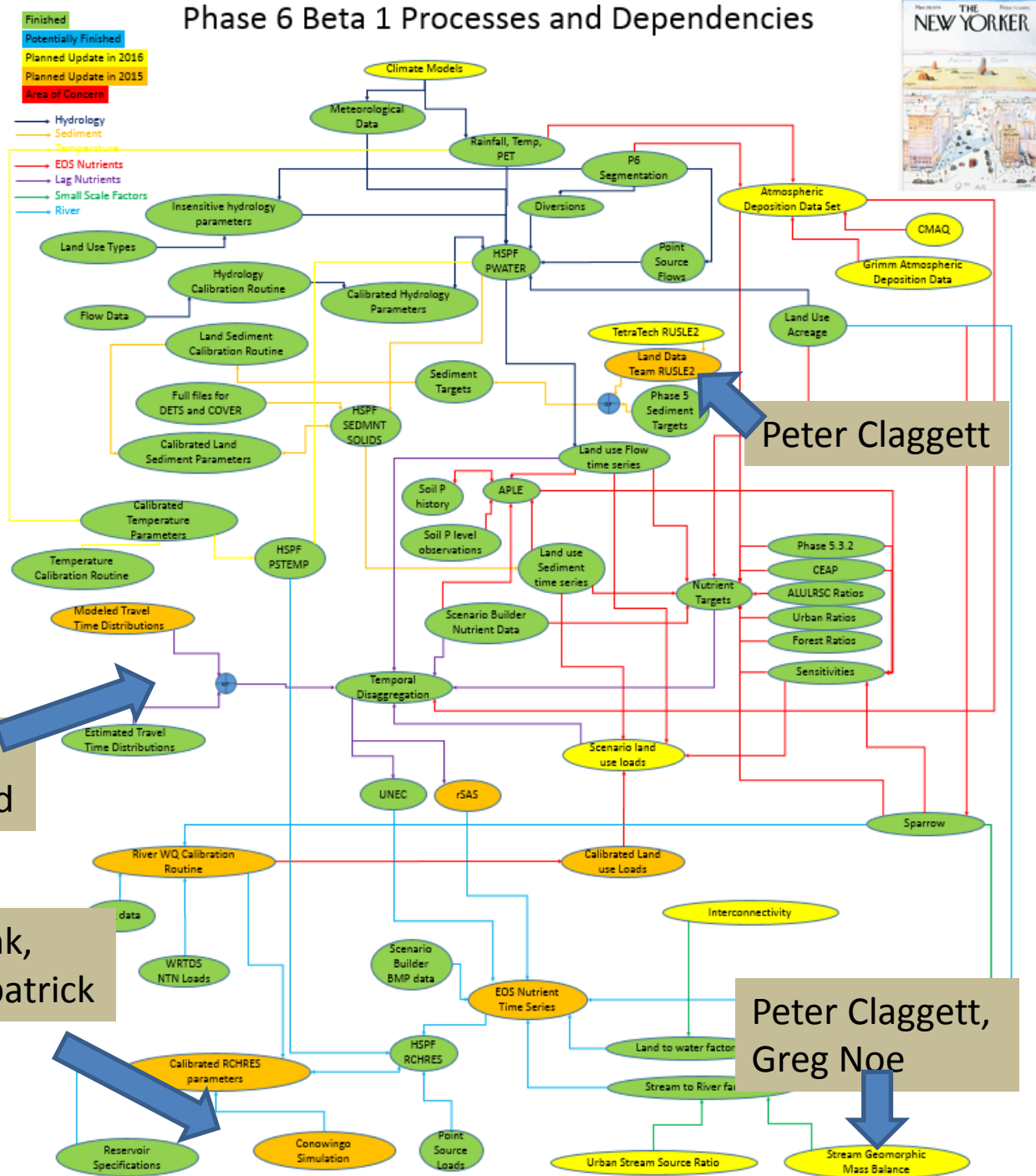
Each box represents a dataset, model, or process

Gopal Bhatt,  
Ciaran Harmon, Ward Sanford

Ross Mandel, Gary Shenk,  
Bruce Michael, Jim Fitzpatrick

Today

## Phase 6 Beta 1 Processes and Dependencies



# Load for a land use in a segment =

Estimated  
Average + Sensitivity \*  $\Delta$  Inputs  
Load

BMPs

Watershed Delivery Variance

Stream Delivery

River Delivery

Phase 6

# Load for a land use in a segment =

Peter Claggett  
RUSLE2

Estimated  
Average + Sensitivity \*  $\Delta$  Inputs  
Load

BMPs

Watershed Delivery Variance

Gopal Bhatt,  
Ciaran Harmon,  
Ward Sanford  
Lag Times

Stream Delivery

Peter Claggett,  
Greg Noe

Ross Mandel, Gary Shenk,  
Bruce Michael, Jim Fitzpatrick

## Phase 6

River Delivery



# Crunch Time – 10/1 – 12/20

- No new information from partnership past 9/30
- Lot of work to put all the pieces together
- Calibration

