Regional Water Board Perspective on PFAS Sources and Management Approaches

Virtual Forum: PFAS in San Francisco Bay Fish

February 4, 2022

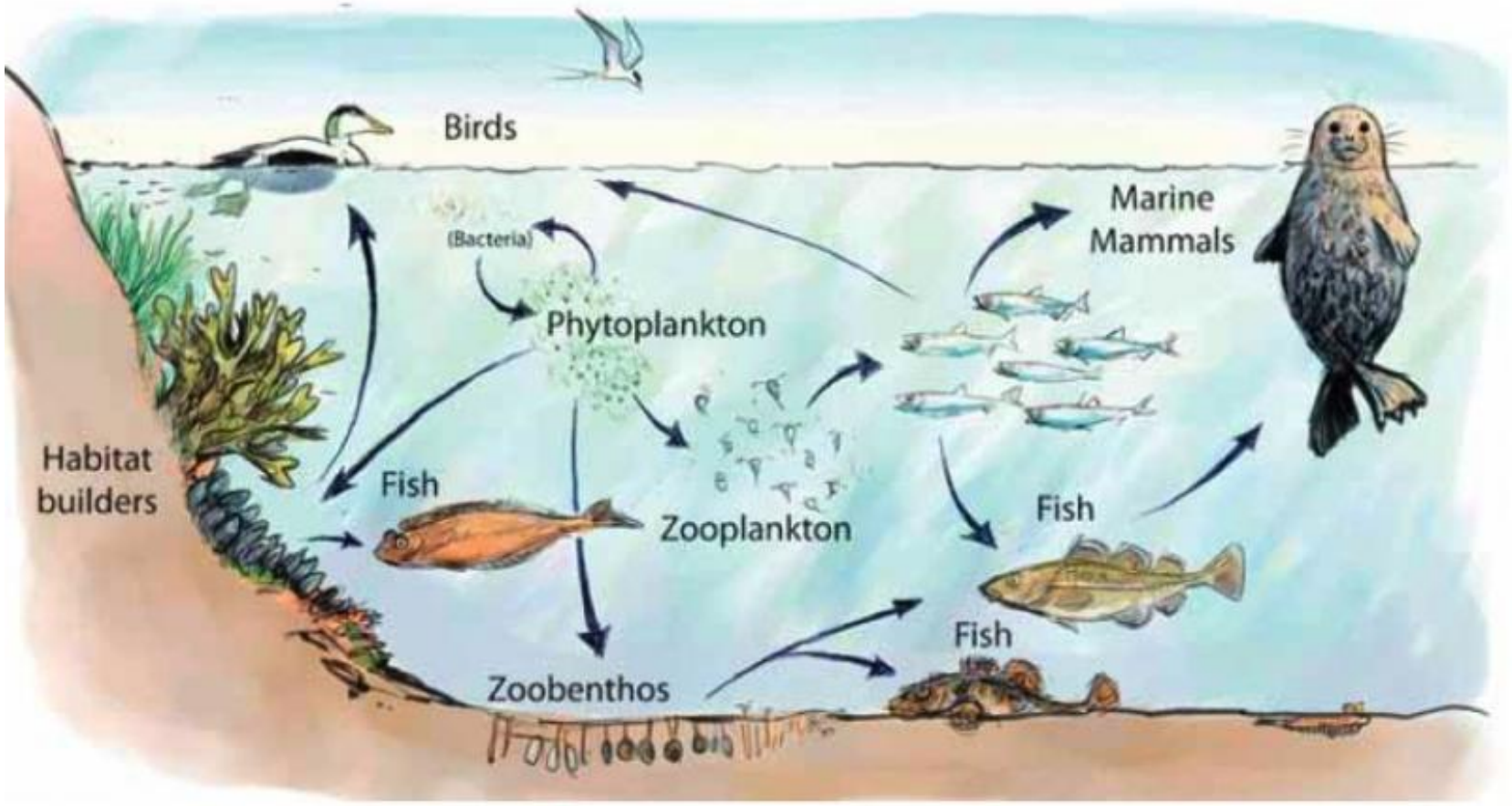
Thomas Mumley
SF Bay Water Board

CALIFORNIA Water Boards

SF Bay PFAS Management and Monitoring Strategy

- Assess PFAS in the Bay and sources and loadings
- Inform national and statewide efforts
- Identify and control controllable sources

Bioaccumulation in the Bay Food Web

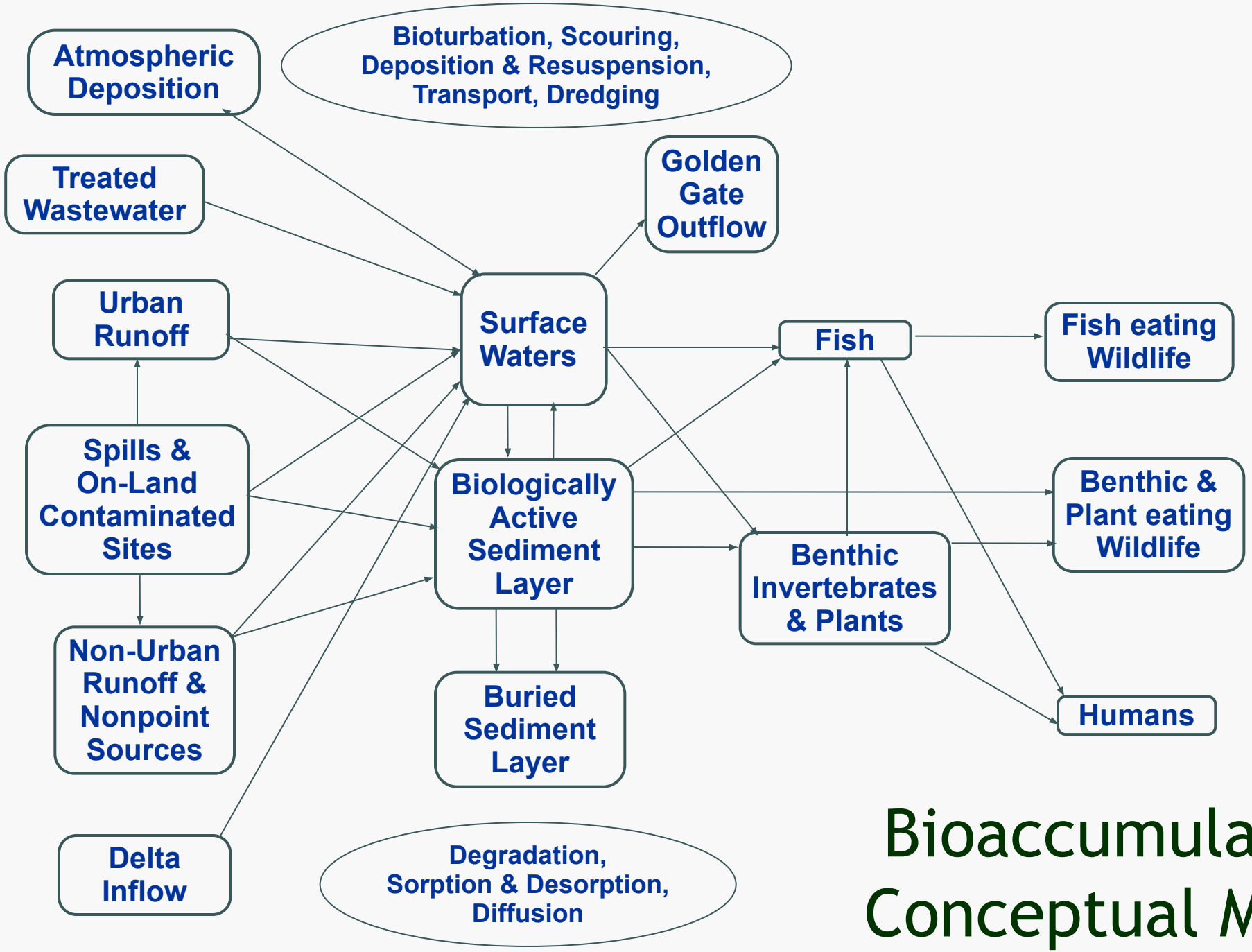


HELCOM (2010): Ecosystem Health of the Baltic Sea.

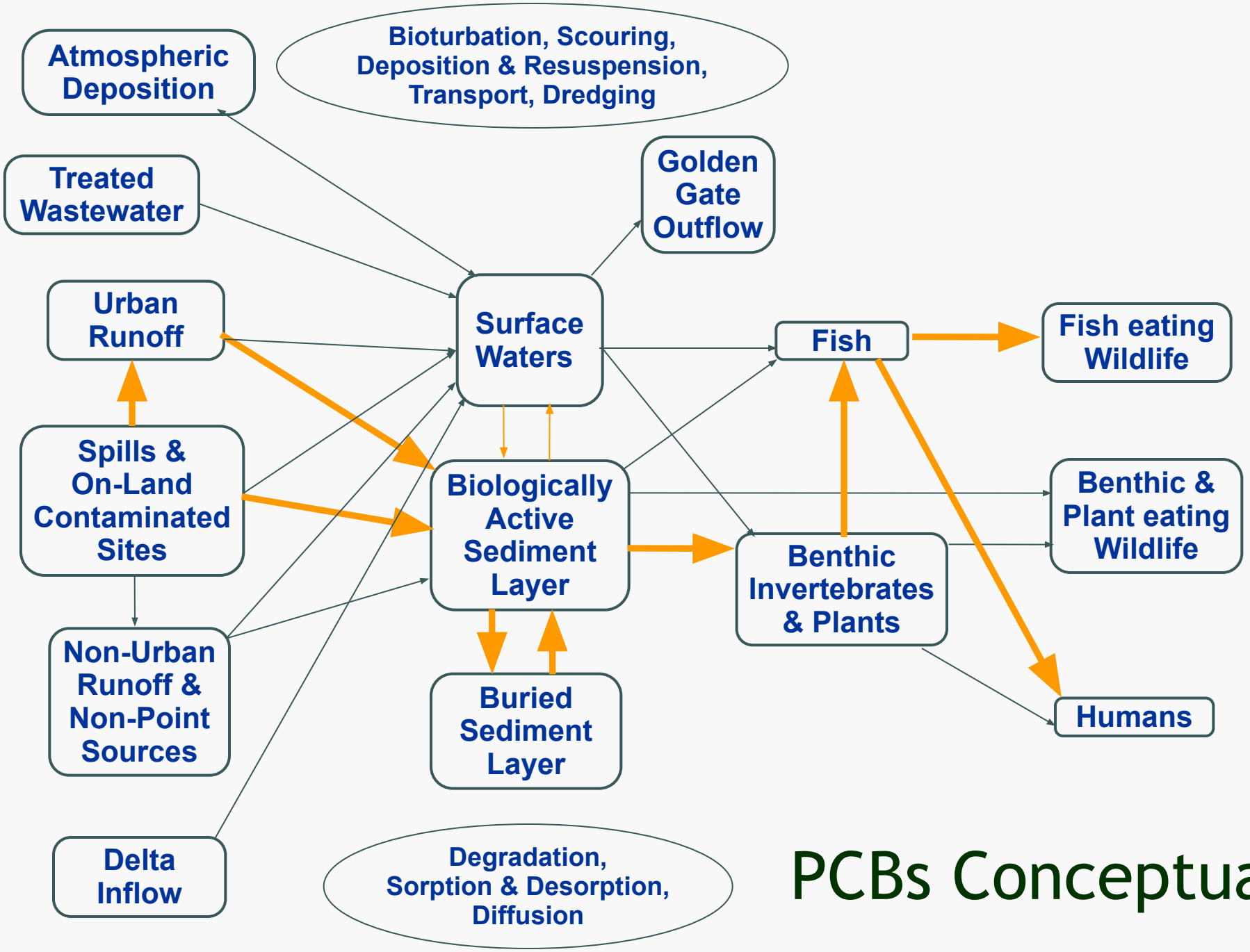
Bioaccumulation

An organism's net contaminant accumulation from all sources

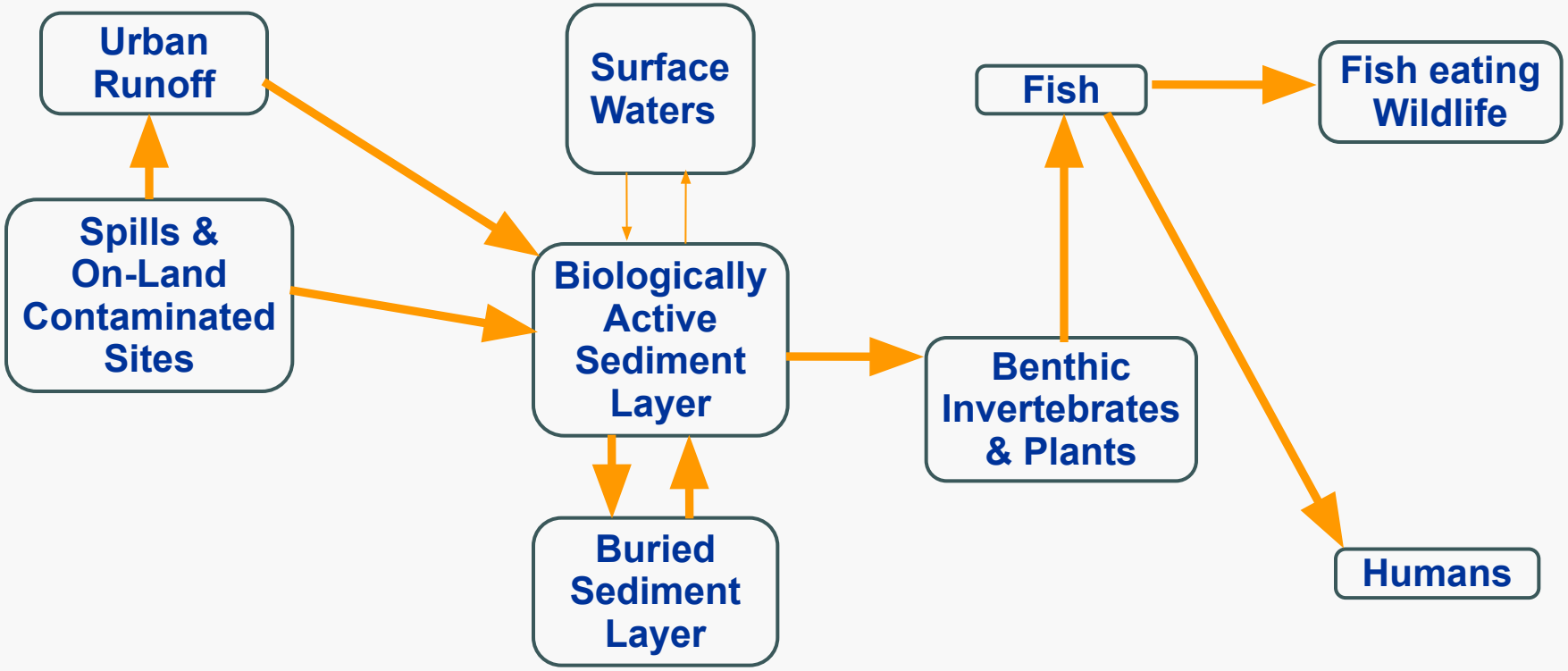
- Air
- Water
- Sediment
- Food



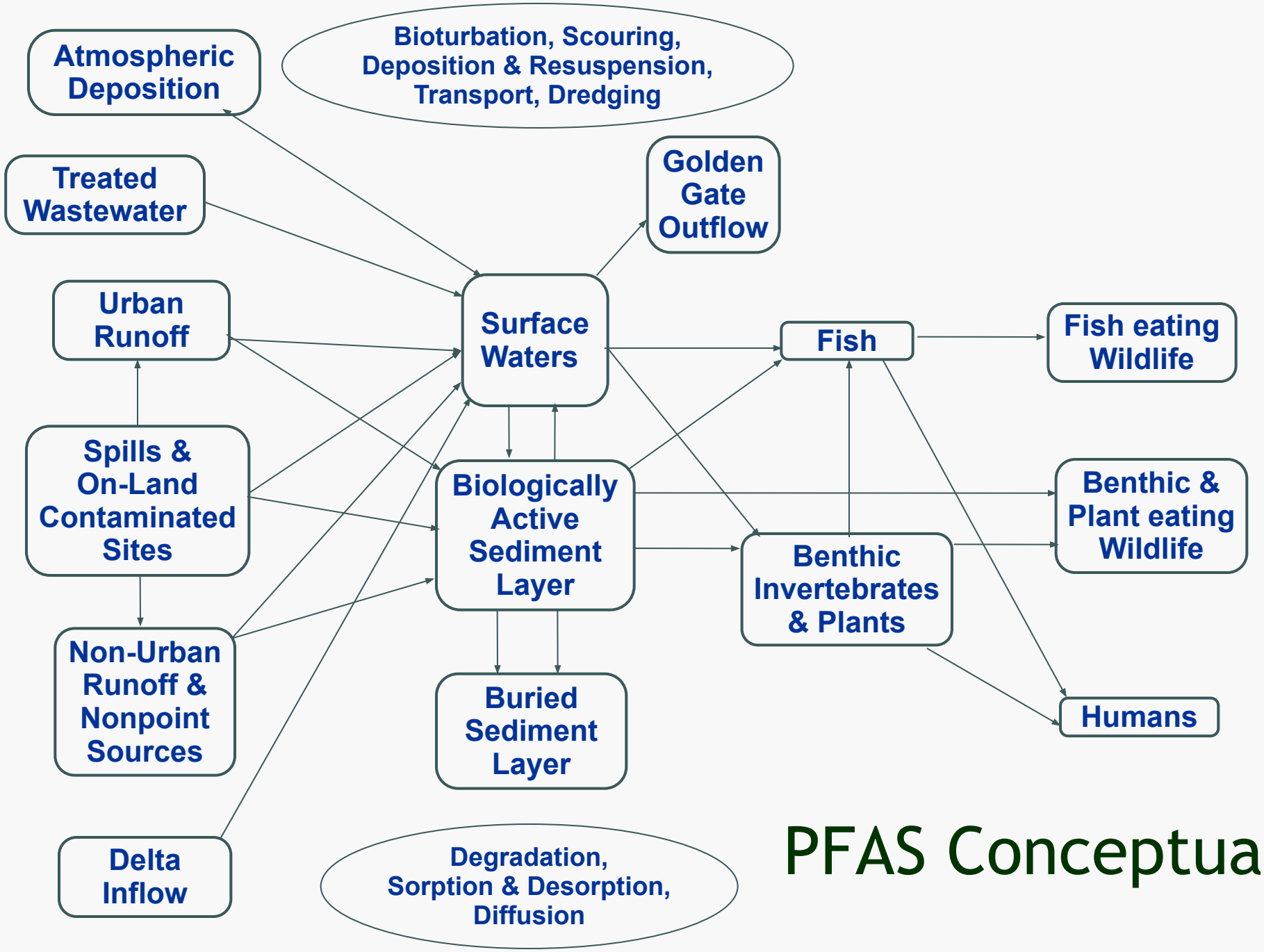
Bioaccumulation Conceptual Model



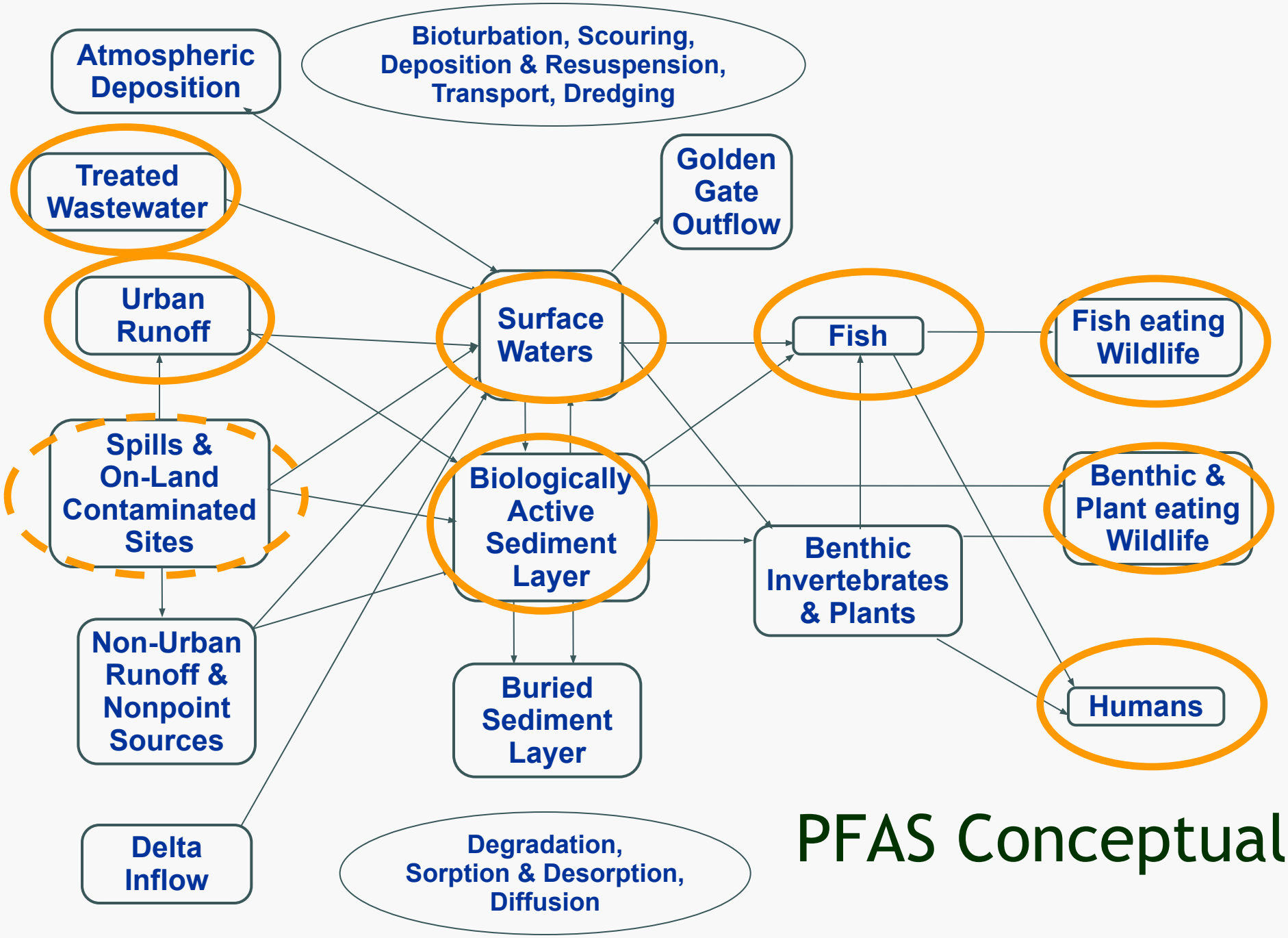
PCBs Conceptual Model



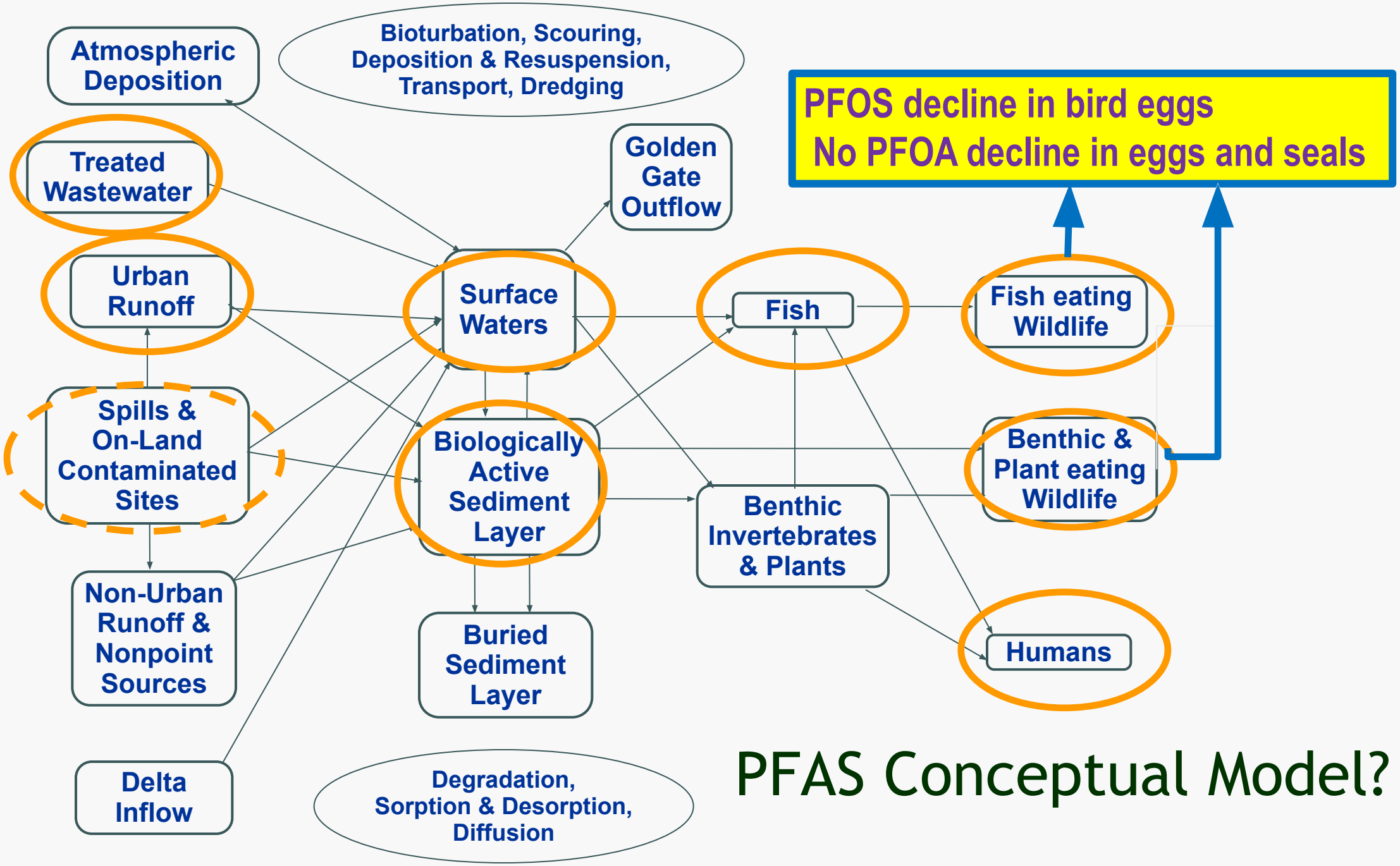
PCBs Conceptual Model



PFAS Conceptual Model?



PFAS Conceptual Model?



PFAS Conceptual Model?

SF Bay PFAS Management
Challenges

- Many PFAS and many products w/ PFAS
  - International production
- Focus on industries = some benefit, but residential sources are comparable or >
- Potential for regrettable substitutions
- Undesirable regulatory consequences
- High cost and limited benefit of wastewater and stormwater treatment

Better Living
Through
Better Managed
Chemistry!