

SLIM



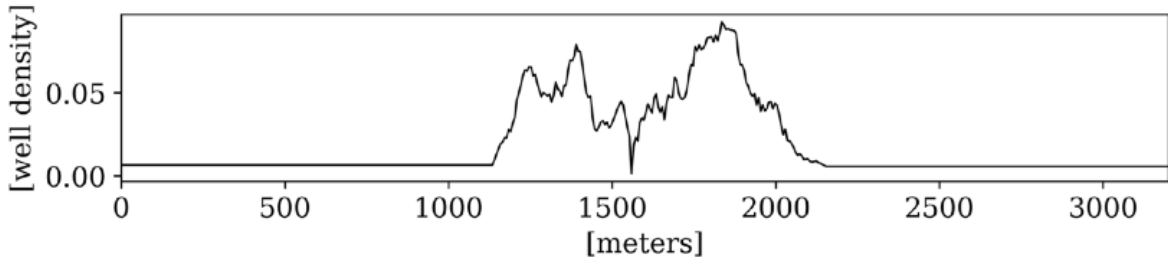
CO2 storage project lifecycle

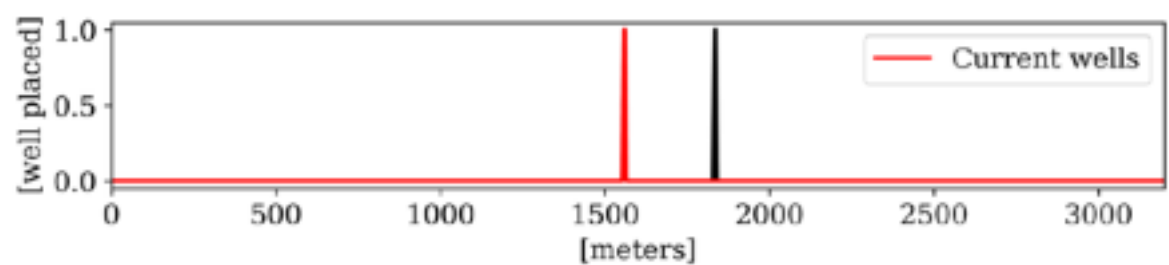
Drillwell using optimal well density

Fluid flow
simulations



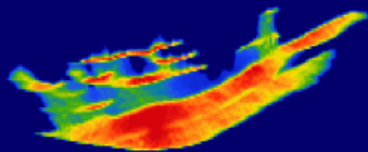
Synthetic
observations

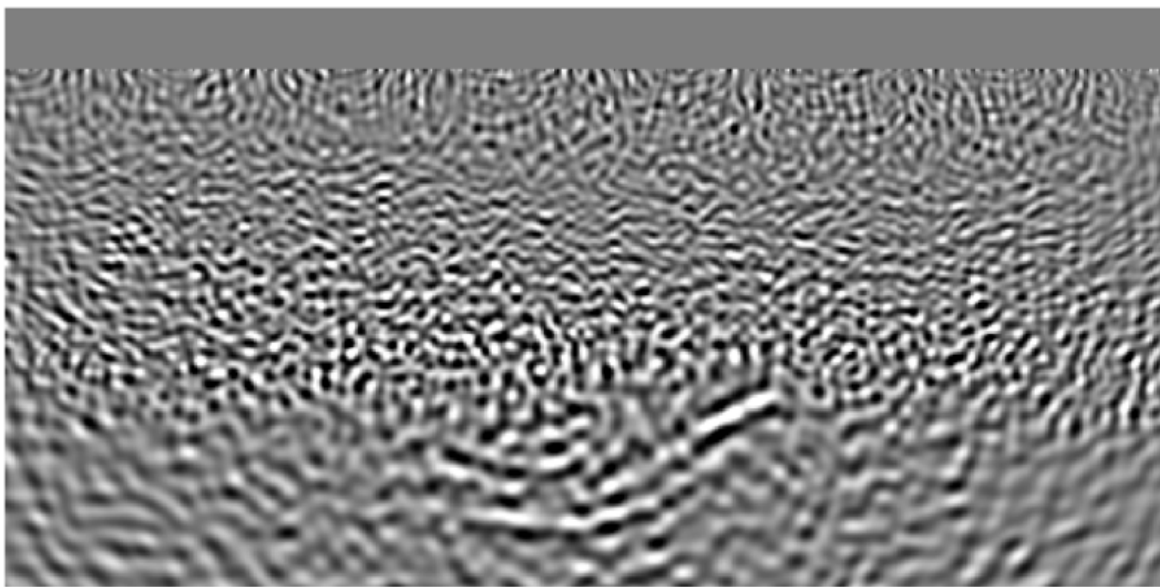




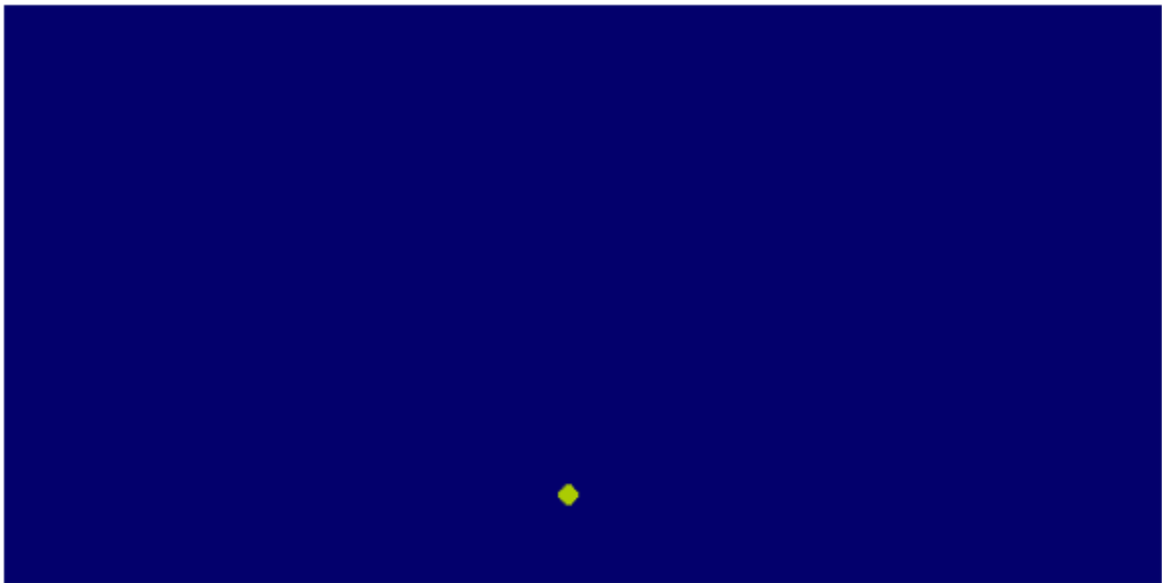












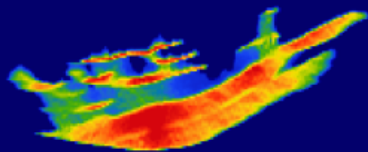
Prior samples $p(\mathbf{x}_0)$

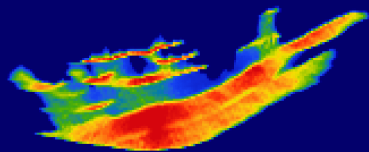
Forecasted plumes $p(\mathbf{x}_{k+1} | \mathbf{x}_k)$

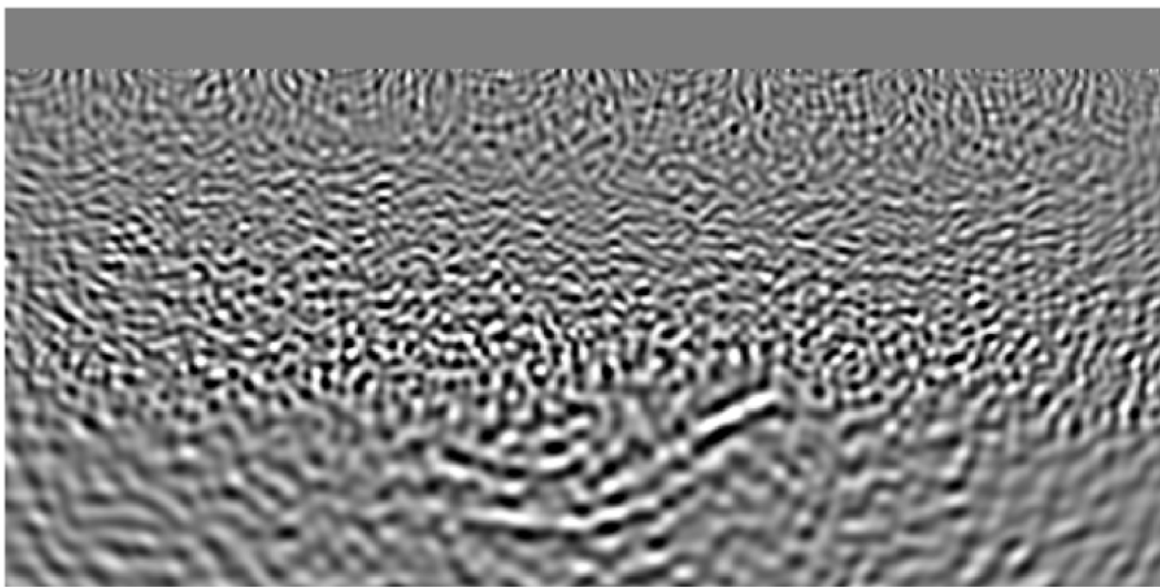
Train inference network and
well design using pairs $p(\mathbf{x}_{k+1}, \mathbf{y}_{k+1})$

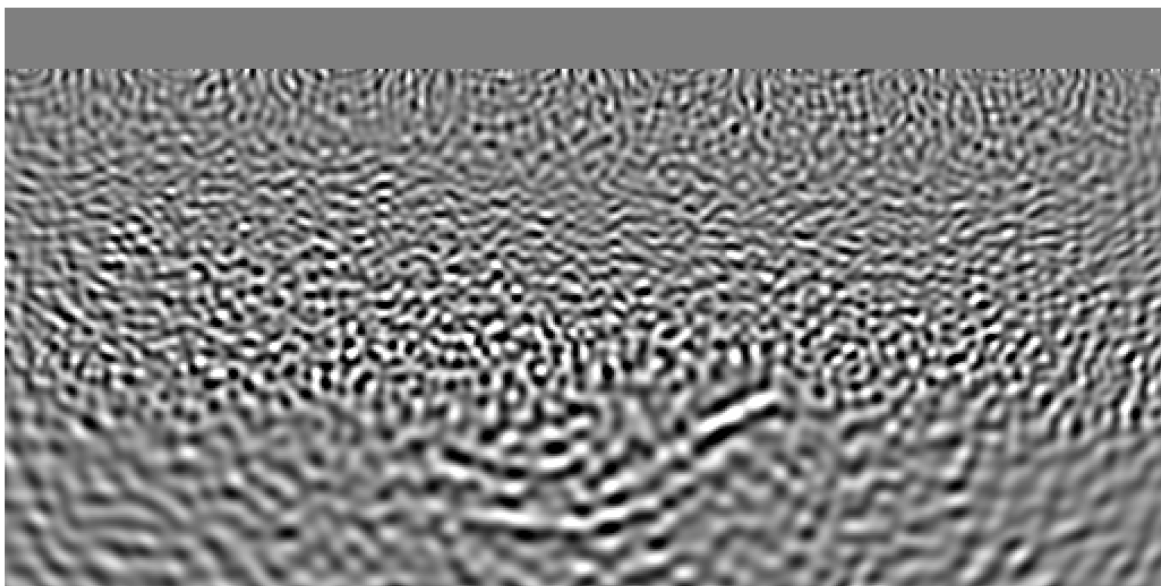
Outputs: posterior sampler

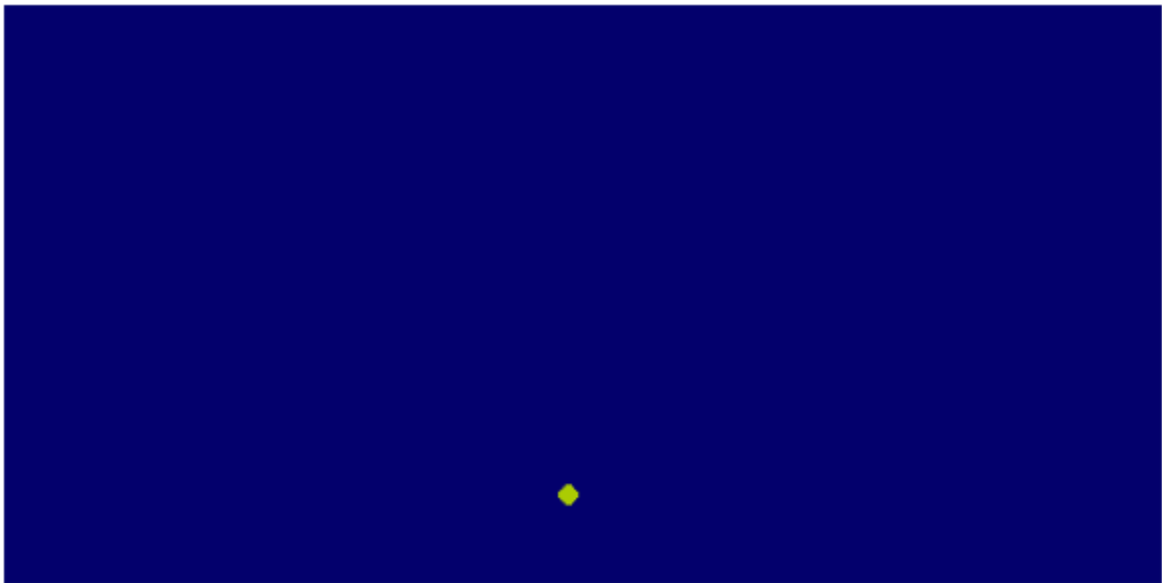
$p_{\hat{\theta}}(\mathbf{X}_{k+1} | \mathbf{y}_{k+1})$ and optimal well
density

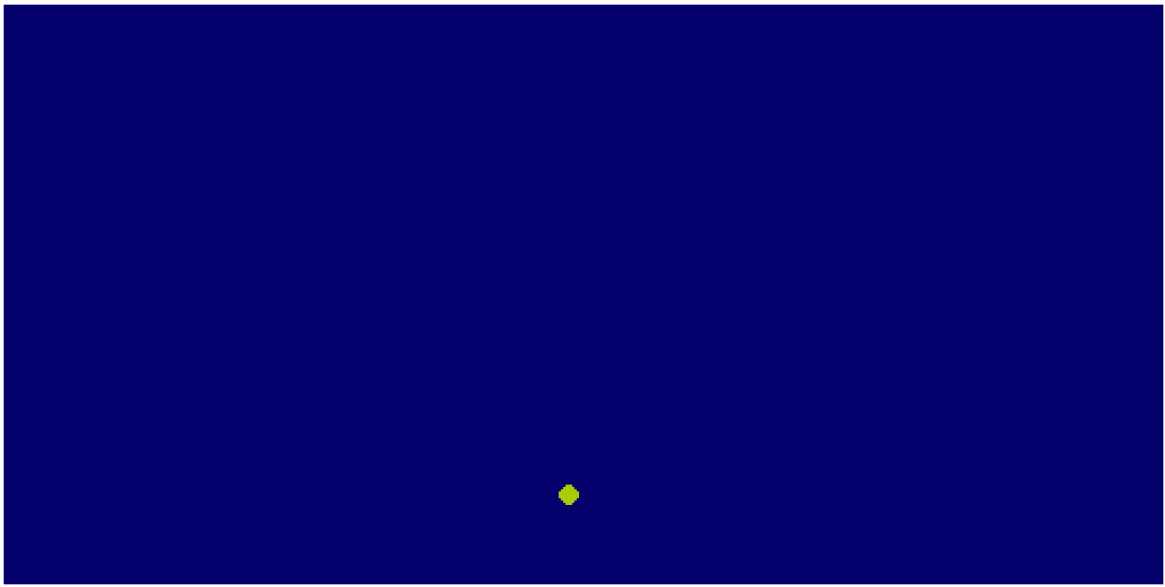




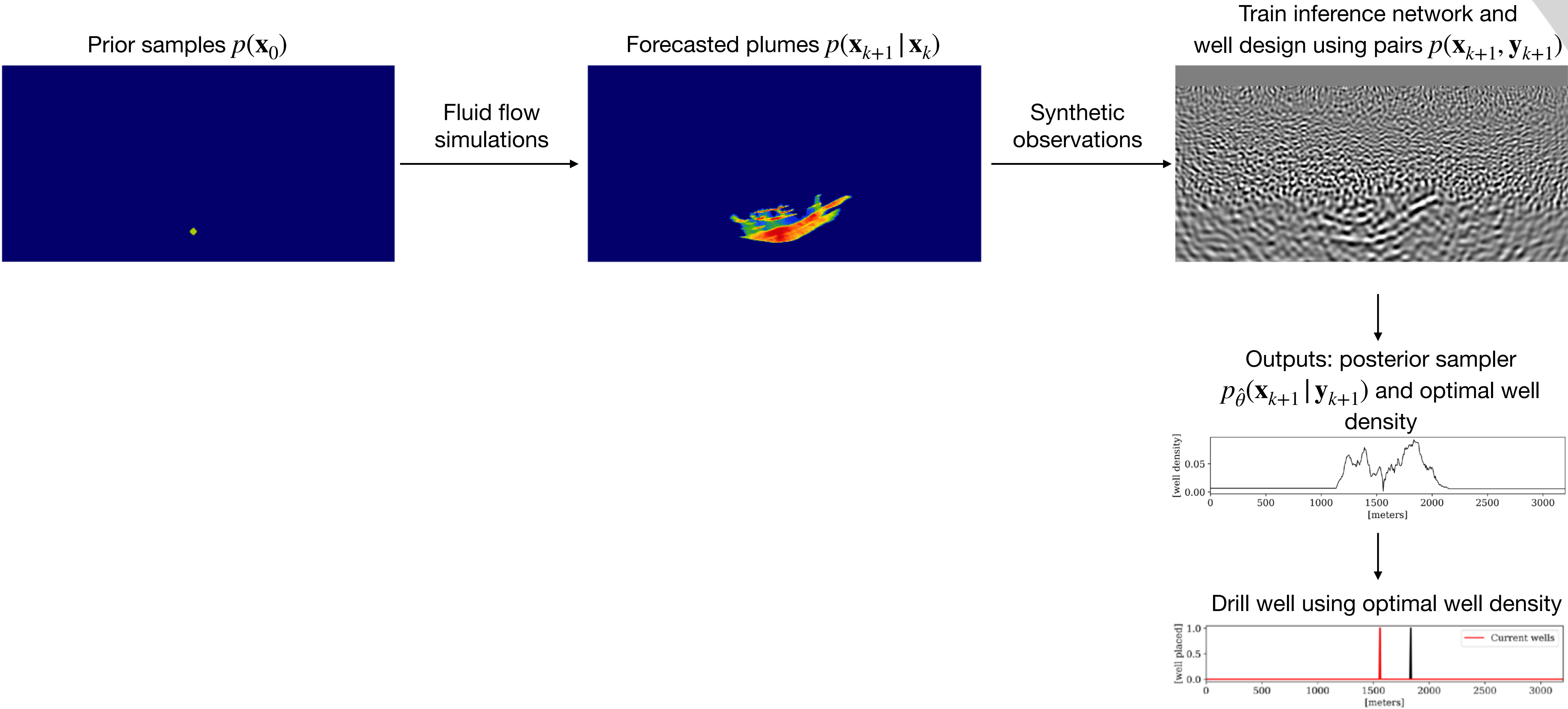








CO2 storage project life cycle



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