



Beyond Silos: Unlocking AI's Full Potential with Petabit Scale Data Mobility

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whoami

- ◆ Background: software engineer, sysadmin, network monkey
- ◆ Techologist
- ◆ Open source developer, user and enthusiast
- ◆ Problem solver

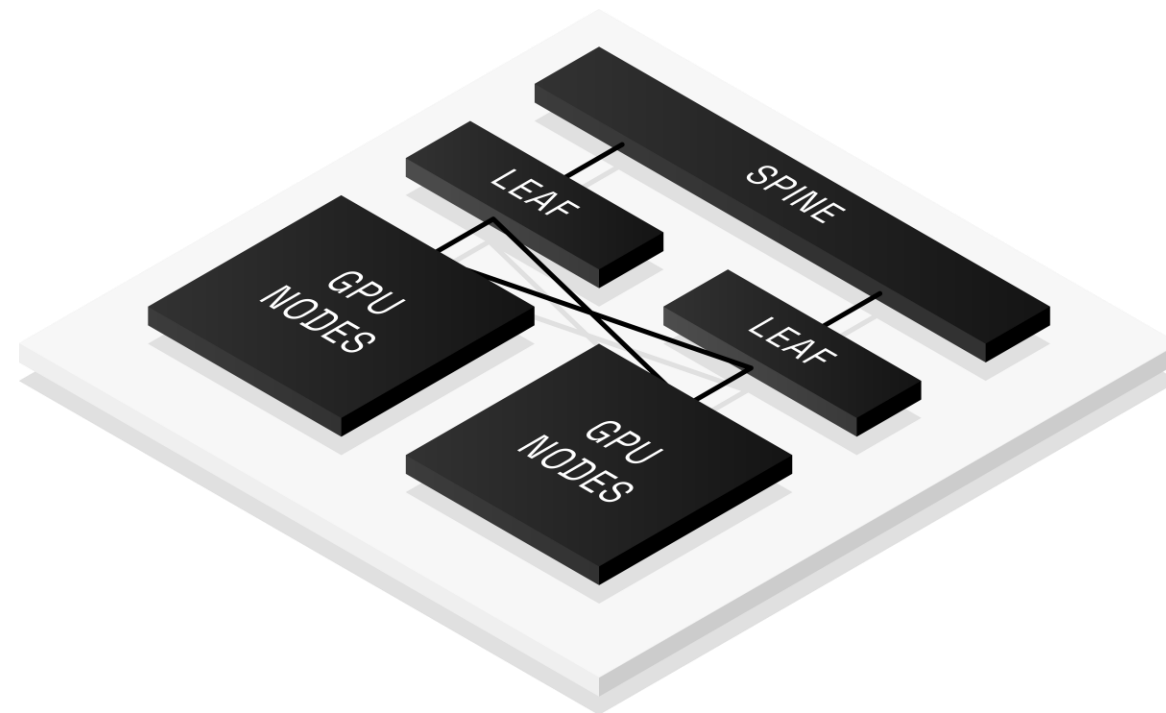


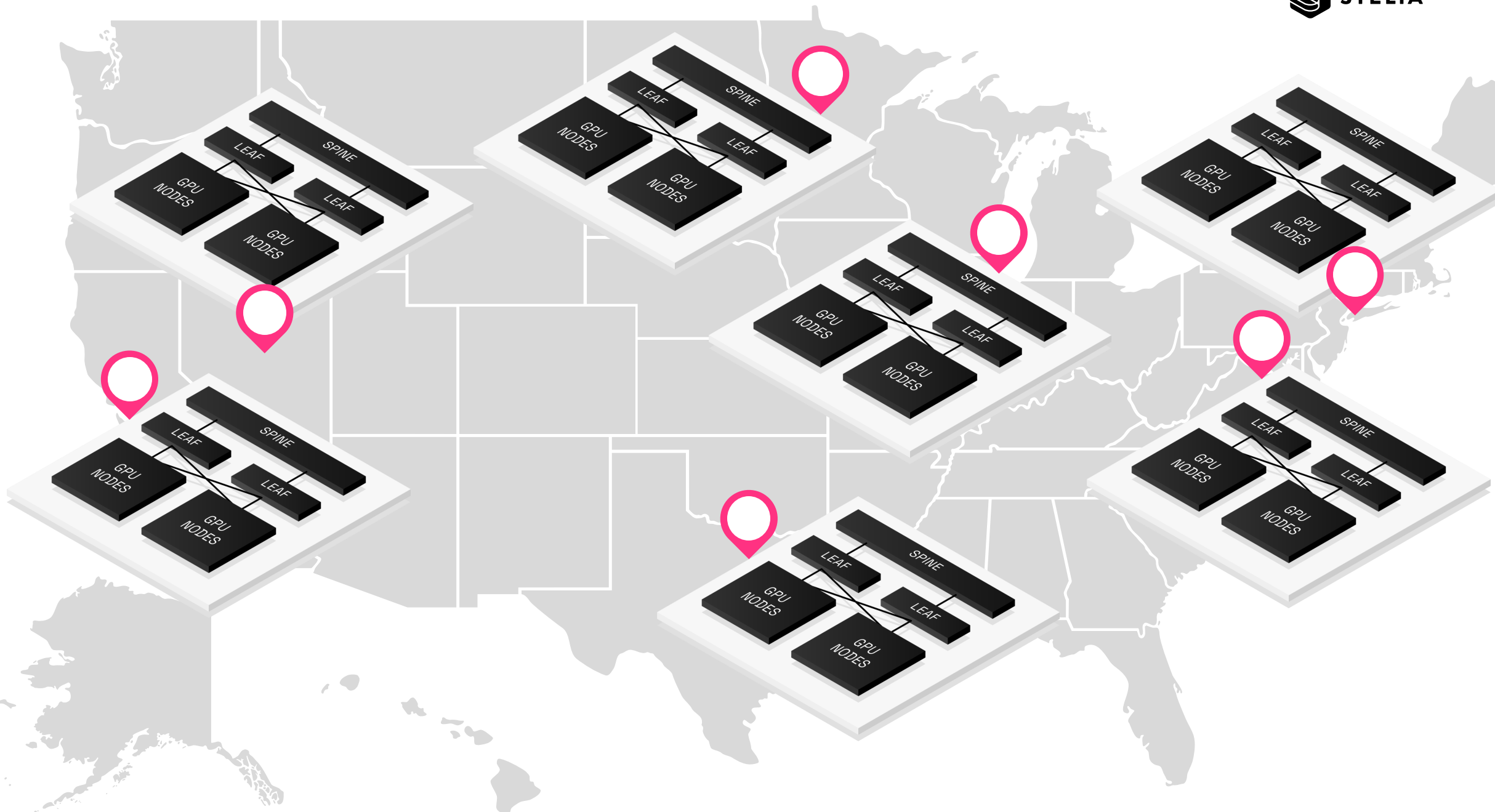
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Why are we here?

State of the Union

- Cloud Computing as it exists today
 - Largely siloed deployments
 - Resources deployed per location
 - Compute
 - Storage
 - Compute is performed where data lives
- Only the hyperscalers have built distributed network architecture with a global platform in mind
- This does not scale for AI





Problems

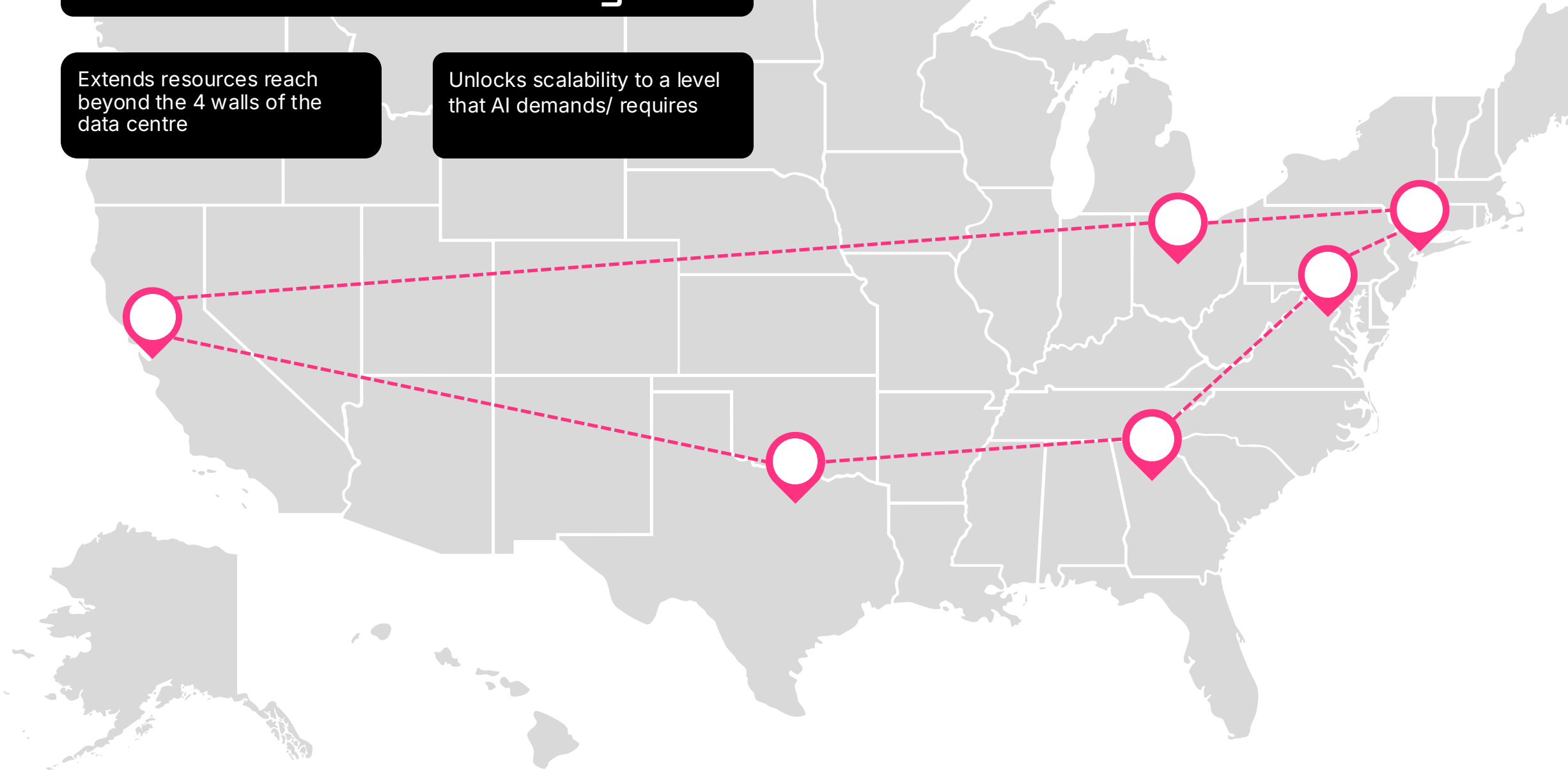
- This resource footprint assumes data does not move between sites
 - If it does – you pay large sums in data transfer
- AI requires data to move between sites
 - Non negotiable
- Does not factor in end customer requirements entirely
 - Data Sovereignty
 - Disaster Recovery
- Wasted resources
 - Redeploying sizeable resources per location
 - Under utilization of deployed resources
- ... does not scale for AI

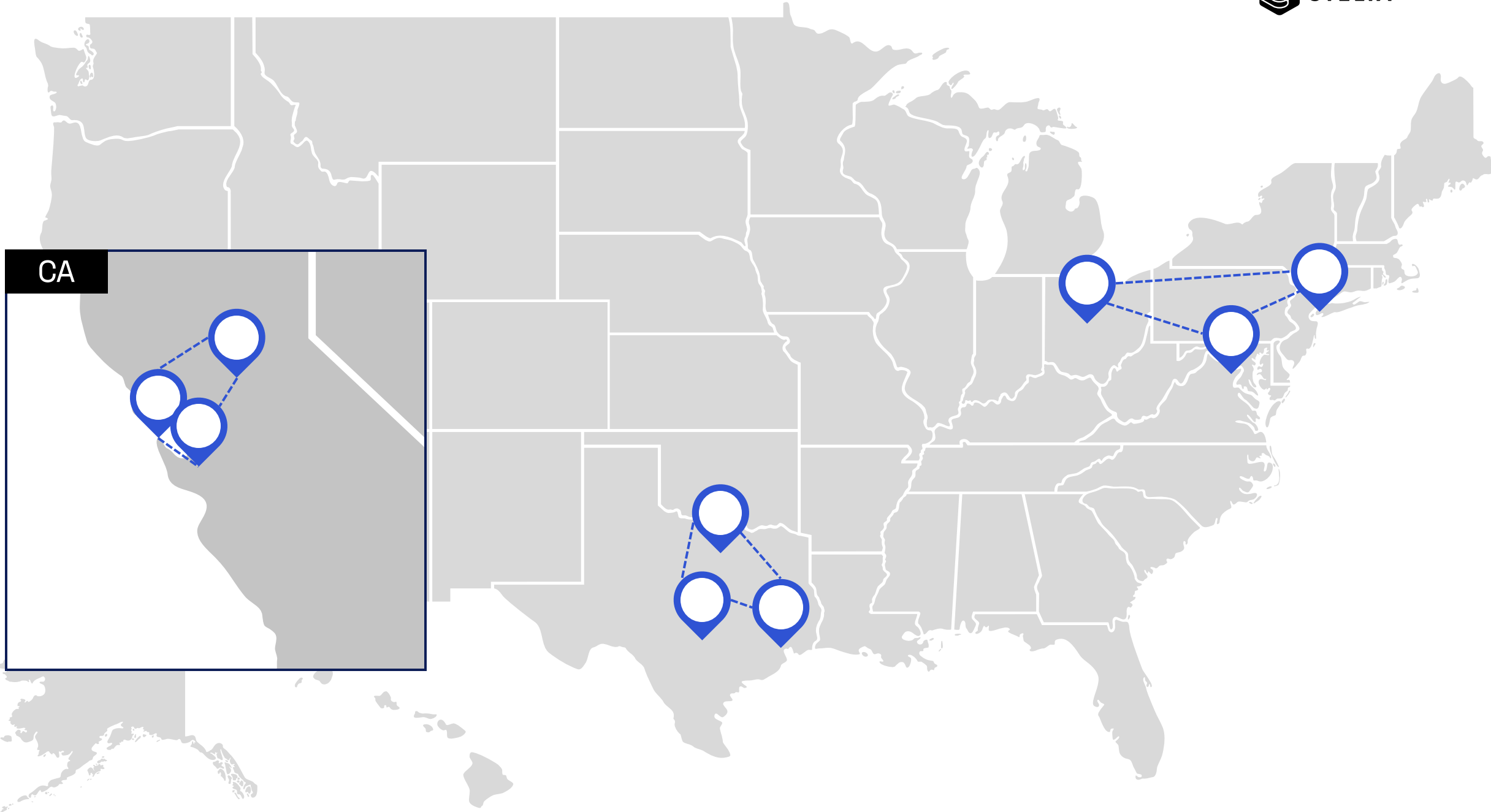
Is there a solution?

Solution: Data Mobility

Extends resources reach beyond the 4 walls of the data centre

Unlocks scalability to a level that AI demands/ requires

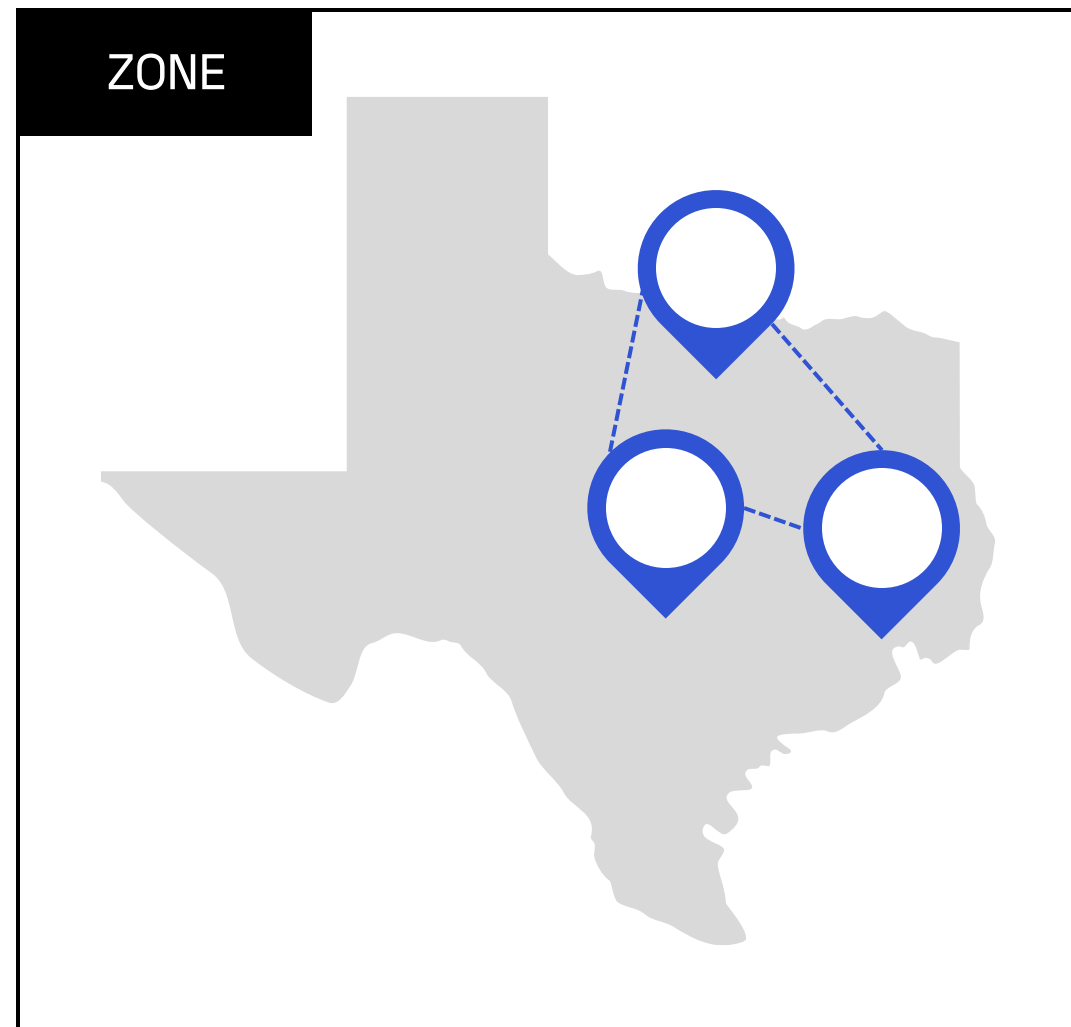




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Interconnected, elastic resources are the future

- ◆ No more static infrastructure in isolated siloes
- ◆ Interconnected resources across a geographical area
- ◆ Available in the elastic consumption model that we have grown to know and love in the past decades
- ◆ Must allow flexible scheduling of workloads
- ◆ Must scale to the level required to service workloads of all sizes
- ◆ Cost and time savings from not having to continuously deploy the same resources per location
- ◆ Innovate further by taking advantage of smaller locations not suitable for large clusters of GPUs but very much suitable for meshing together in a geographic region e.g. London



Closing remarks

- Think big
- Think interconnected
- Think hyperscale
- Design for hyperscale from the get-go
- Don't try and retrofit it afterwards
- Profit

Questions

Visit the Stelia booth 1033

