

# Consortium Training: What Is It and Why Should You Care?



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Sovereign AI for Business and Society  
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# How does your phone recognize your face?

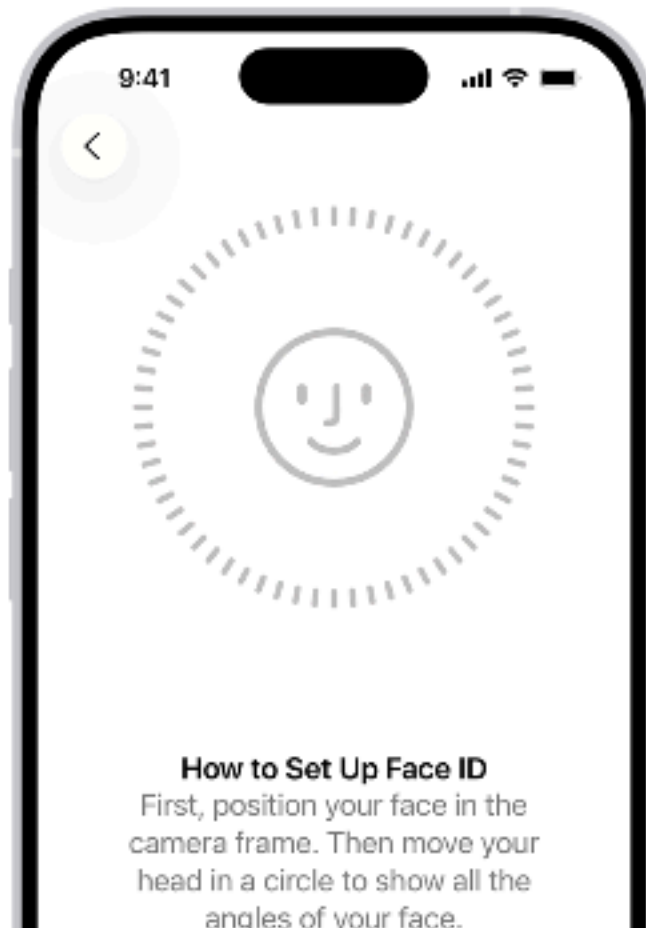
## Set up Face ID on iPhone

Use Face ID (on [supported models](#)) to securely and conveniently unlock iPhone, authorize purchases and payments, and sign in to many third-party apps by simply glancing at your iPhone. Face ID data is encrypted, isn't saved to iCloud, and doesn't leave your iPhone.

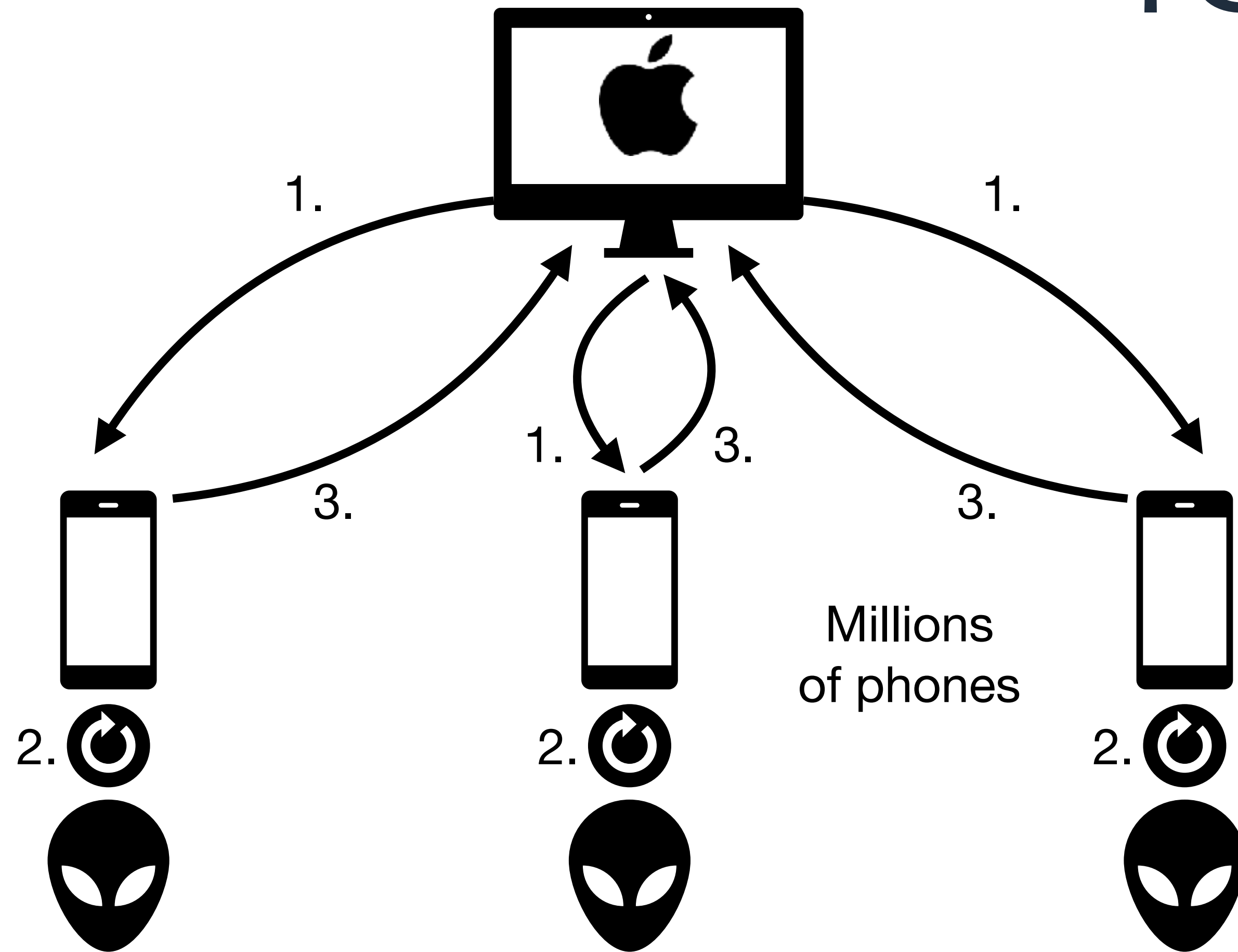
To use Face ID, you must also [set a passcode](#) on your iPhone.

## Set up Face ID or add an alternate appearance

- If you didn't set up Face ID when you first set up your iPhone, go to Settings  > Face ID & Passcode > Set up Face ID, then follow the onscreen instructions.
- To set up an additional appearance for Face ID to recognize, go to Settings > Face ID & Passcode > Set Up an Alternate Appearance, then follow the onscreen instructions.



# How does your phone recognize your face?



Loop:

1. Model weights sent to phones
2. Phones train locally on faces
3. Model updates sent "home" and merged

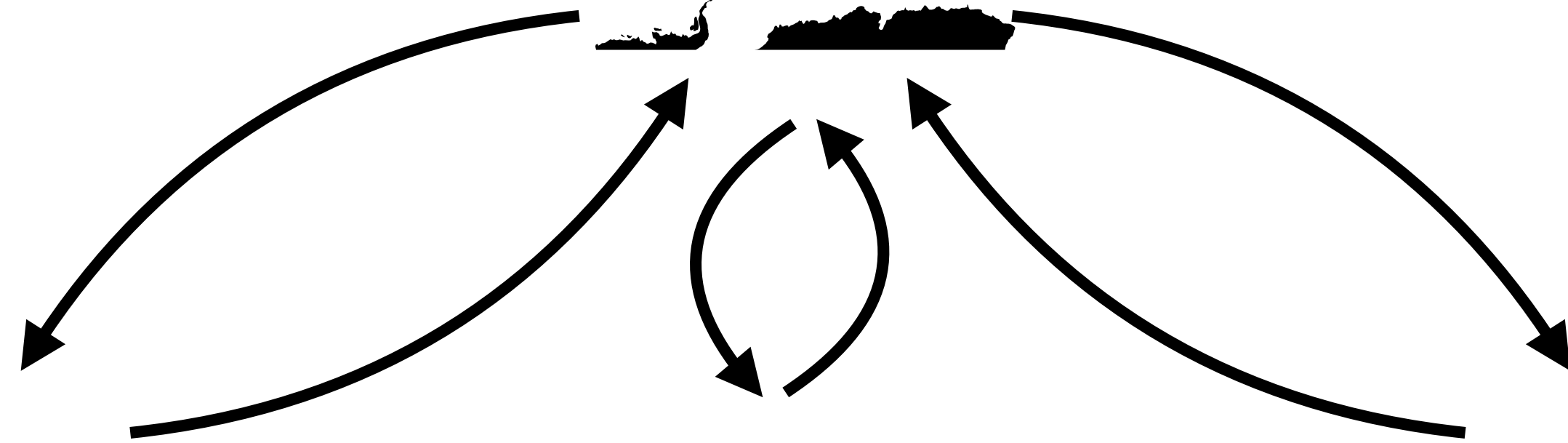
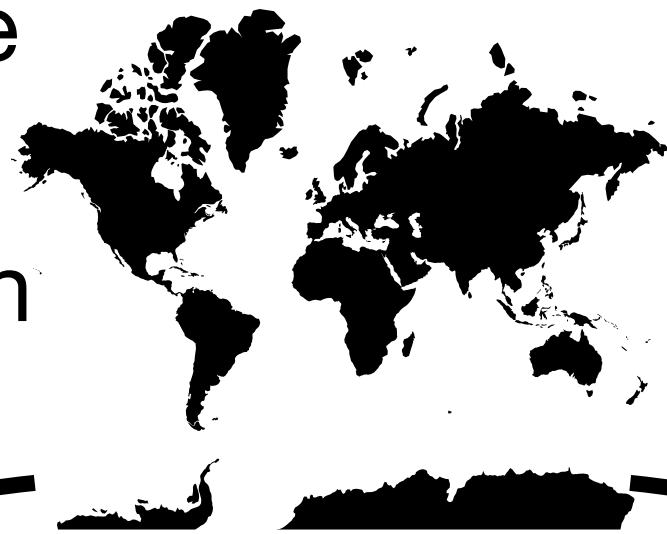
Advantages:

- Your face data never leaves your phone - privacy preservation
- While models get better at faces
- No server-side storage and little compute needed!

*"Federated learning with differential privacy"*

# How can you train a world-class foundation model?

“1” central node  
for training  
and coordination



1+SN  
in Asia



1+SN  
in Europe



1+SN  
in Africa



“N” (10s) of sovereign nodes

“N+1 consortium training (or learning)”

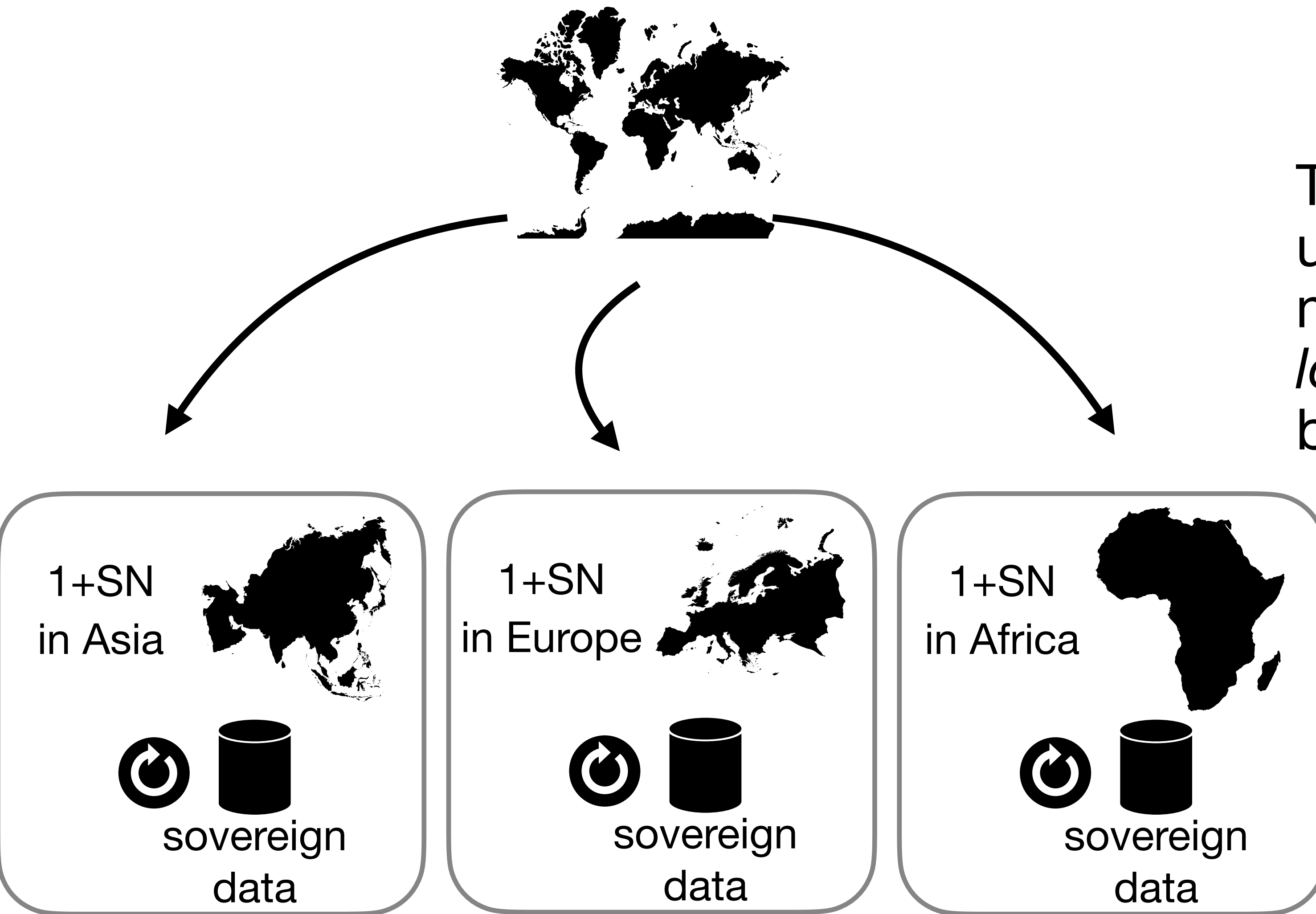
Consortium vs Federated learning:

1. Fewer, much bigger *sovereign nodes*, with heterogeneous HW
2. More local training loops
3. Local and shared data sets

Advantages:

- Scale by pooling resources and expertise
- Fully embrace data restrictions and governance

# "Local" Alignment



The N sovereign nodes - and other users - can tune the OSS global models for even better alignment to *local* needs: cultural values, law, business processes, etc.

## Advantages:

- Tuning of trusted, OSS models
- Use of private data
- Balance global training vs. local tuning tradeoffs

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## [EPIC - Task/Feature/Issue] Two node, DiLoCo (or related algo...) pre-training experiment #70

New issue

Open Task Parent: [Task/Feature/Issue] PoC to explore techniques of "consortium training"

deanwampler opened last week Last edited by deanwampler Member

### Is there an existing issue for this?

I have searched the existing issues

### Task/Feature/Issue Details

In this task, two of our sovereign nodes will test the efficacy of [DiLoCo](#) distributed training, as discussed in our reference doc, [Training Approaches: Centralized, Federated, and Consortium](#).

In essence, each node will do a run of *continuous pre-training* (CPT) using data local to each node, then the updated weights will be merged and the updated model will be evaluated for performance improvements or regressions.

This is the preliminary draft of the process.

Assignees

- ctn
- deanwampler
- jolson-allianceai

Labels

- help wanted
- infrastructure
- model training
- research

Type

Task

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The-AI-Alliance / tapestry

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