

The CacheCash Experiment on EdgeNet

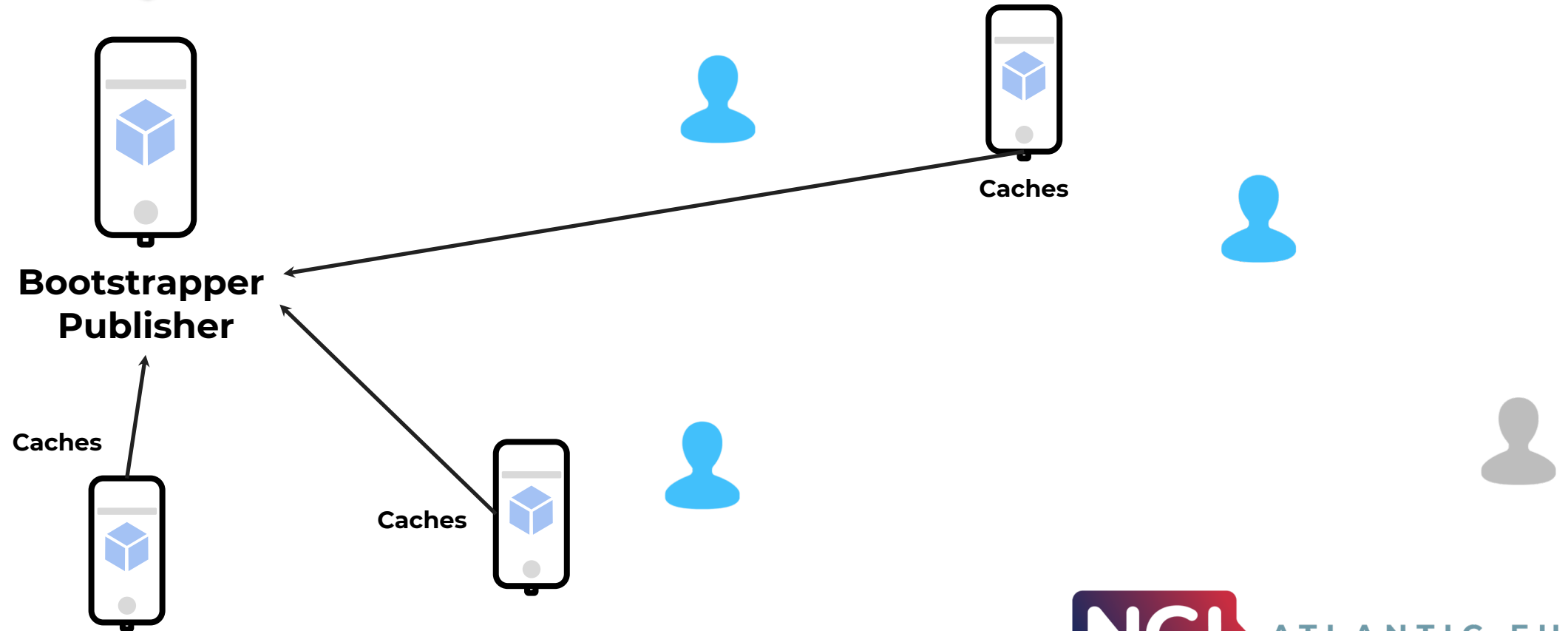
Pushing the trust boundaries of content distribution networks.

Berat Senel, Timur Friedman, Olivier Fourmaux,
Justin Cappos, Rick McGeer

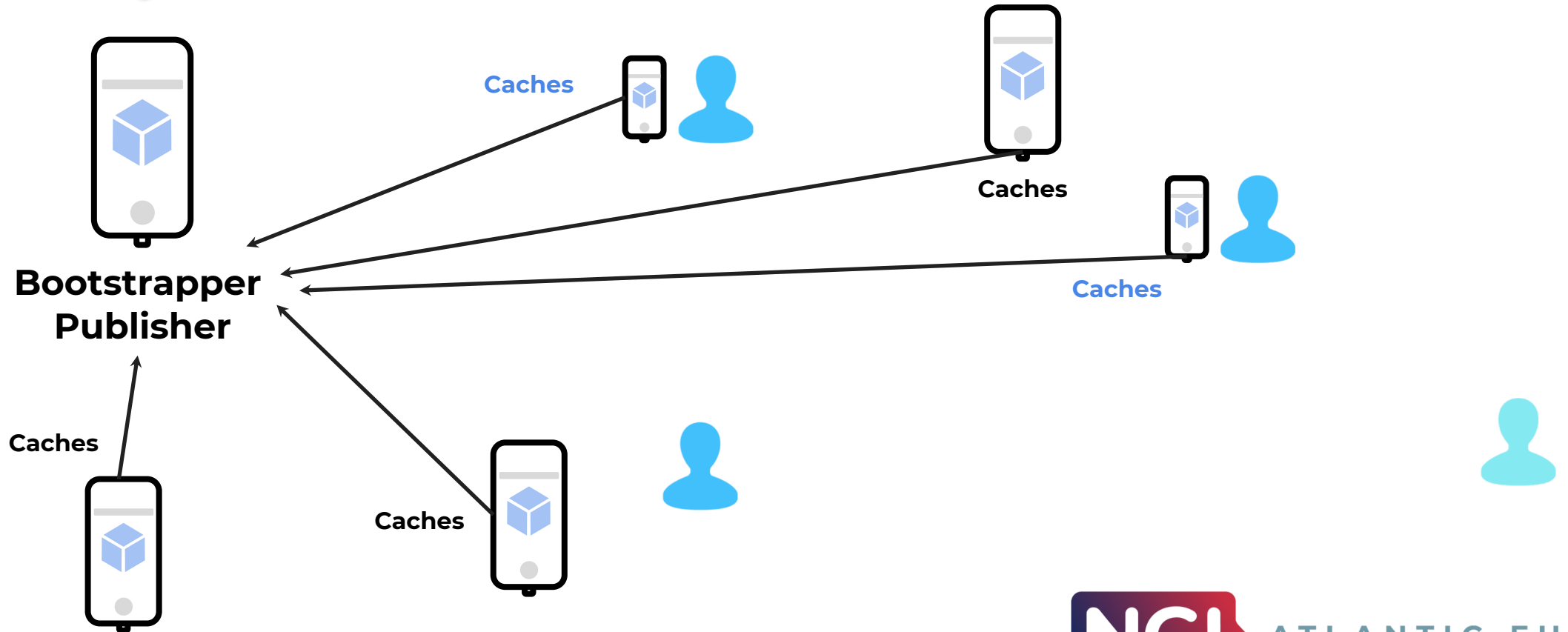
CACHECASH

- Cutting edge **blockchain-based** content distribution network (CDN)
- Delivery of *large chunks* of content
- Involves the **end-users** themselves with their own machines
- Users are incentivized by a *crypto-currency* (Cachecoin)
- Move **trust** to the **protocol** from *ensuring the nodes are honest* (traditional CDN)

HOW DO USERS GET INVOLVED?

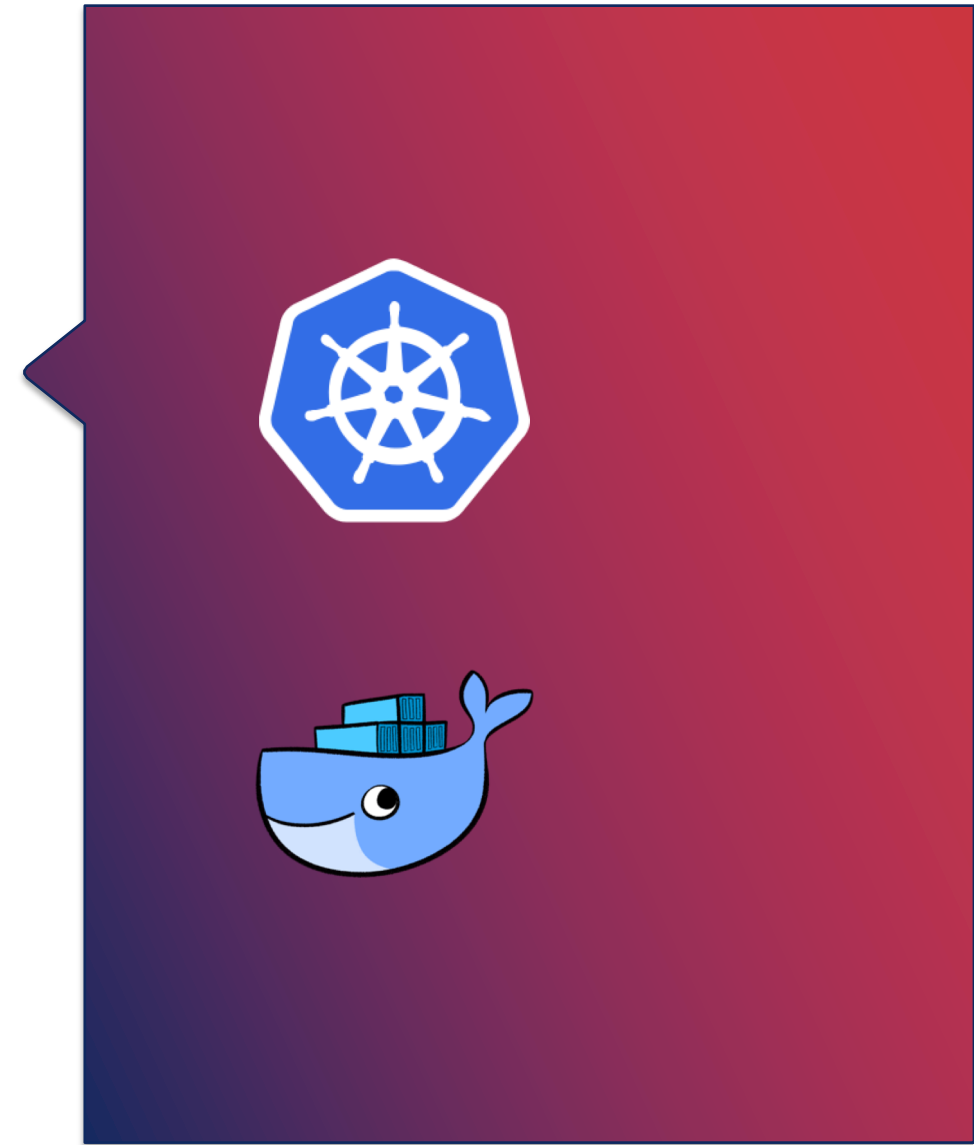


HOW DO USERS GET INVOLVED?

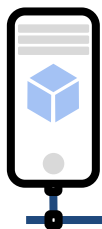




- ❖ Based on Docker & **Kubernetes**
- ❖ Natively extends the Kubernetes API
- ❖ Brings you into the **edge cloud**
- ❖ Facilitates **node contribution**
- ❖ *Vantage points*, a distributed cluster
- ❖ Provide ***isolation*** between users

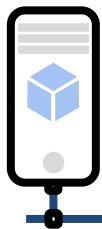


Multi-provider and Multi-tenant



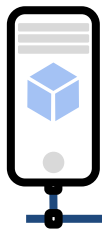
**Node contributed by
an individual user**

**Used by a
researcher**



**Node provided by a
research institution**

Used by a student



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Thank you for listening!

Special thanks to Collaborators and Funders

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