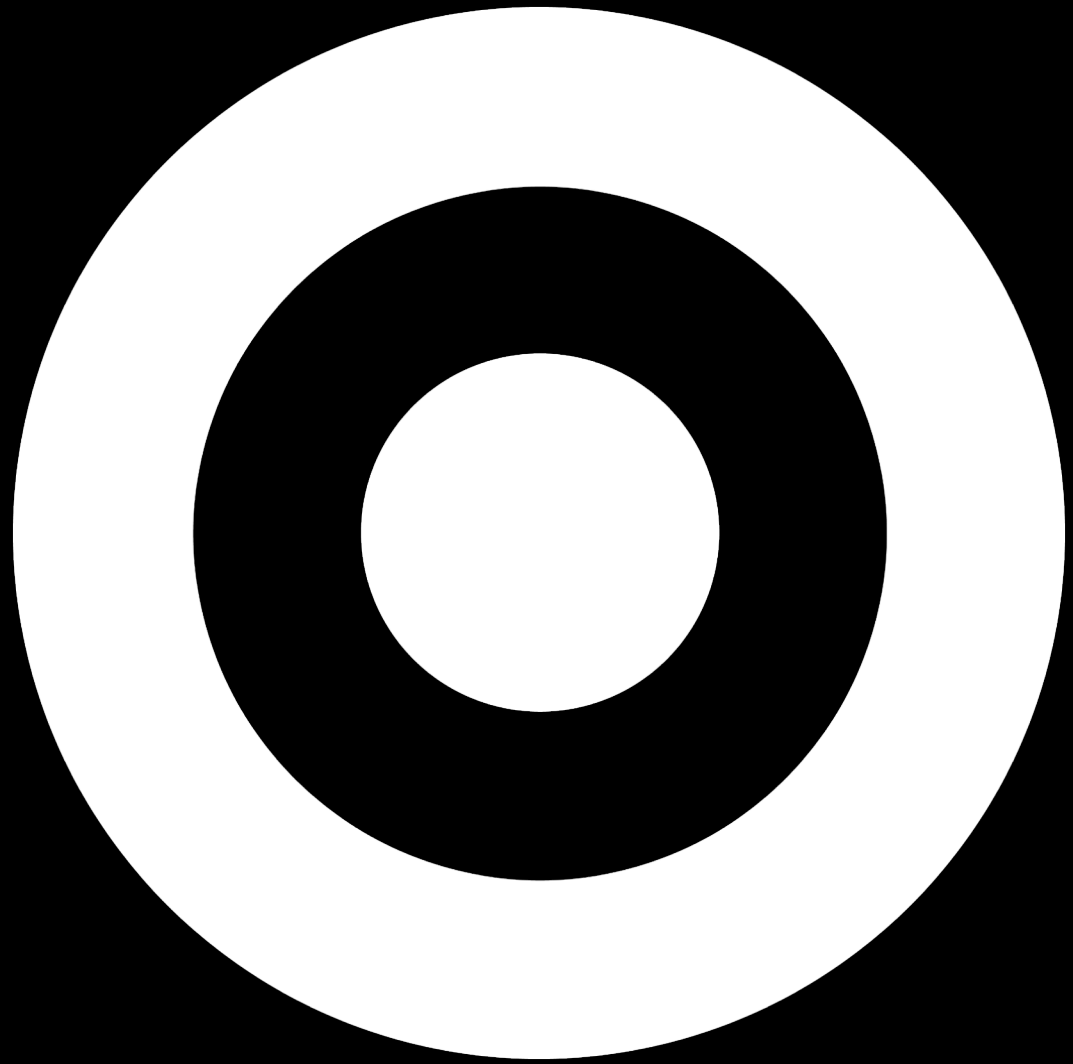
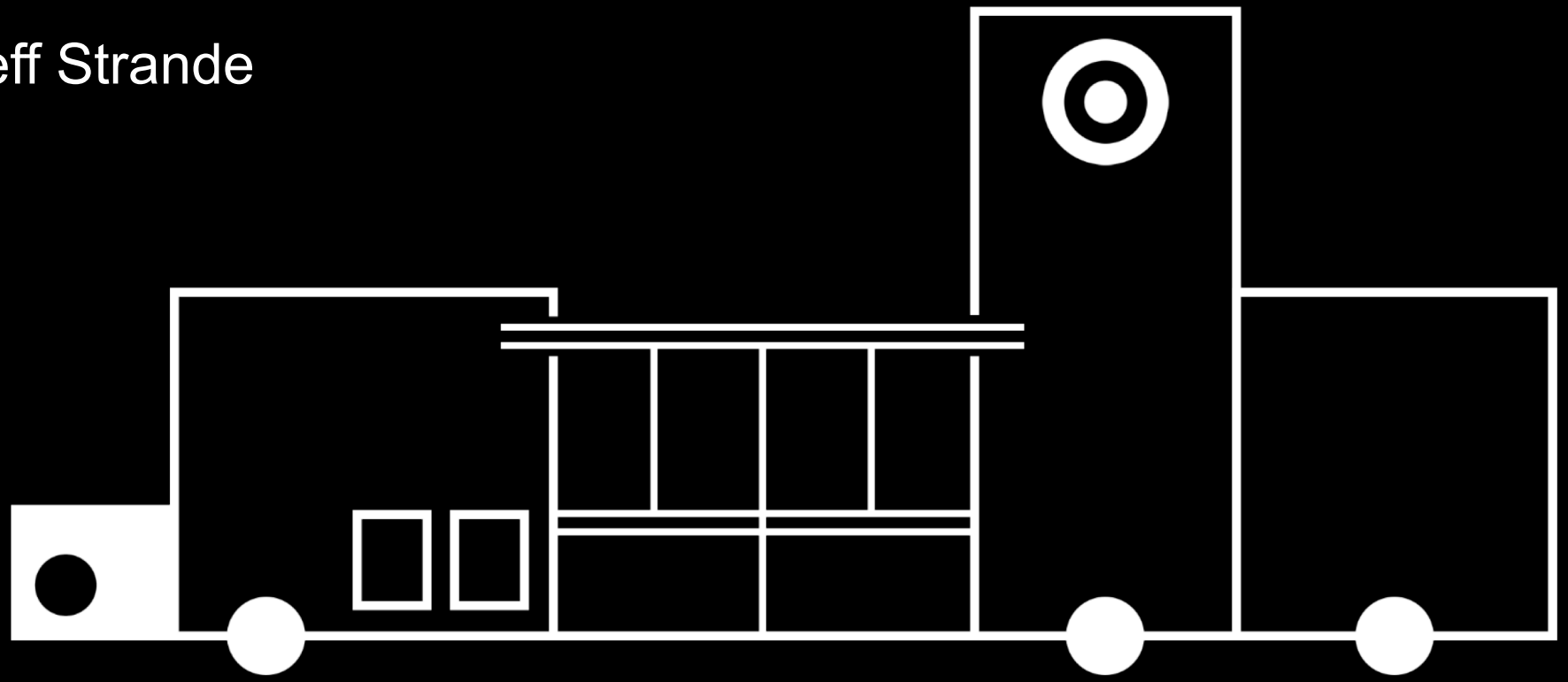


ONS 2019 | San Jose

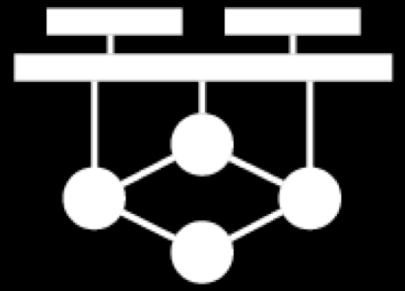
open source networking @ stores

Craig Dolezal | Jeff Strande
Target



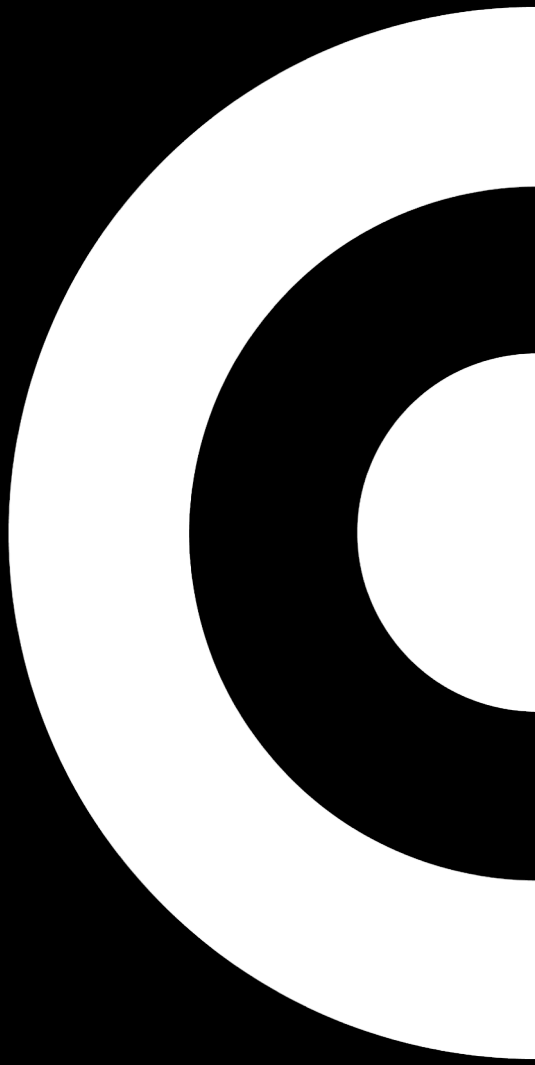
why we're at ONS

- value of open
- freedom and flexibility
- longer view to move at our pace
- focus on features most meaningful to target



agenda

1. about target
2. connectivity strategy
3. challenges
4. keys to success
5. what we're building



1

about target

- 1,850 stores in the United States
- 39 distribution centers in the U.S
- 350,000 team members worldwide
- global offices in India, China, Hong Kong
- 30 million guests a week shop our stores
- 100 million guests a month visit our digital channels

stores as hubs:
a digital transformation

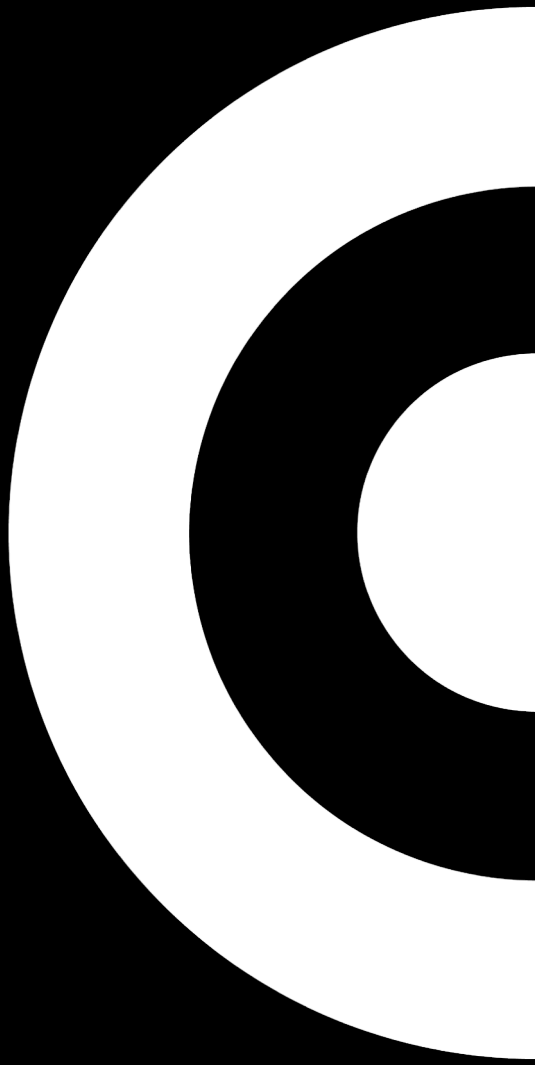
guest-centric engineering
= great guest experiences

we embrace

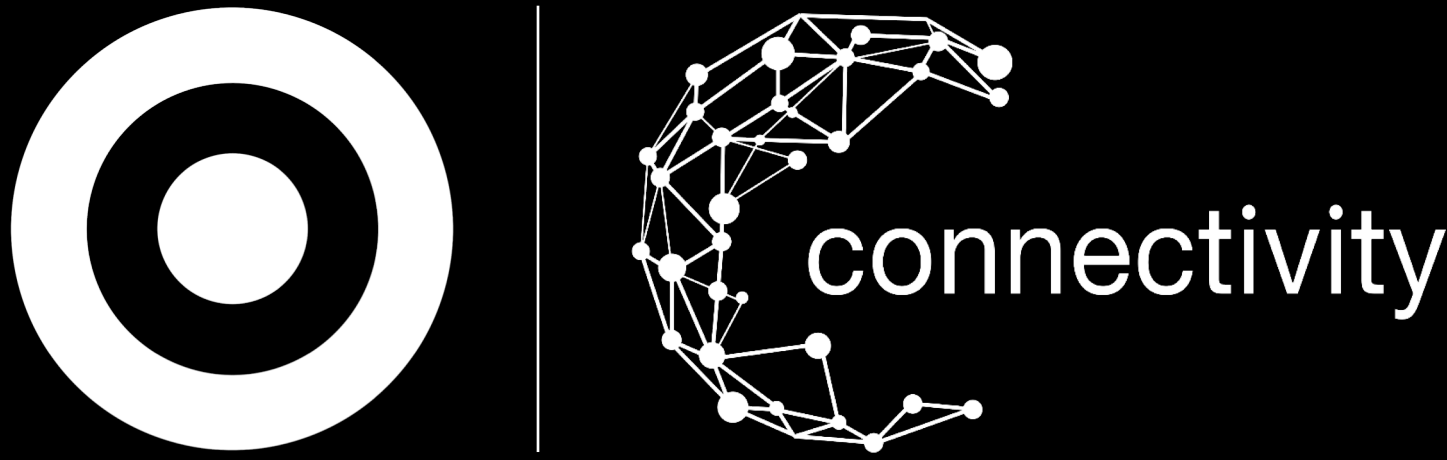
- agile
- open
- learning

today’s problem domain

- Constantly growing cloud footprint to facilitate hundreds of supporting web applications
- Constantly growing technical footprint in the store to provide a killer in-store experience
- Bridging the gap between the web experience and the in-store experience. Connecting our guests to the best possible experience, regardless of where they are shopping with us



2

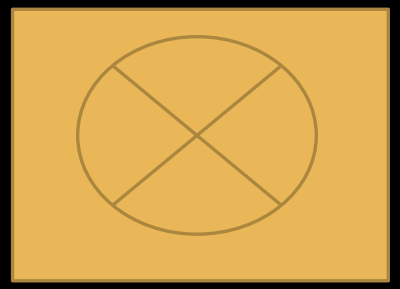


strategy

direction of travel

today

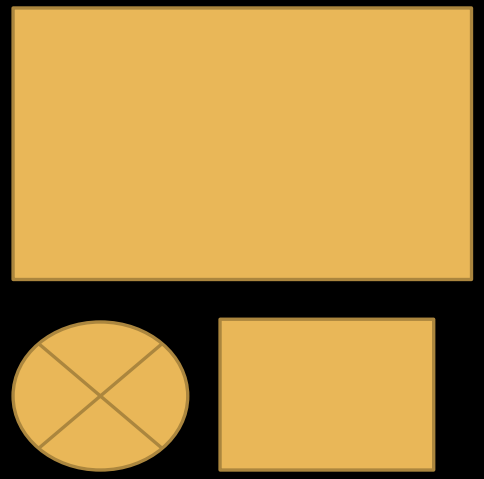
vendor hw



vendor sw

future

commodity hw

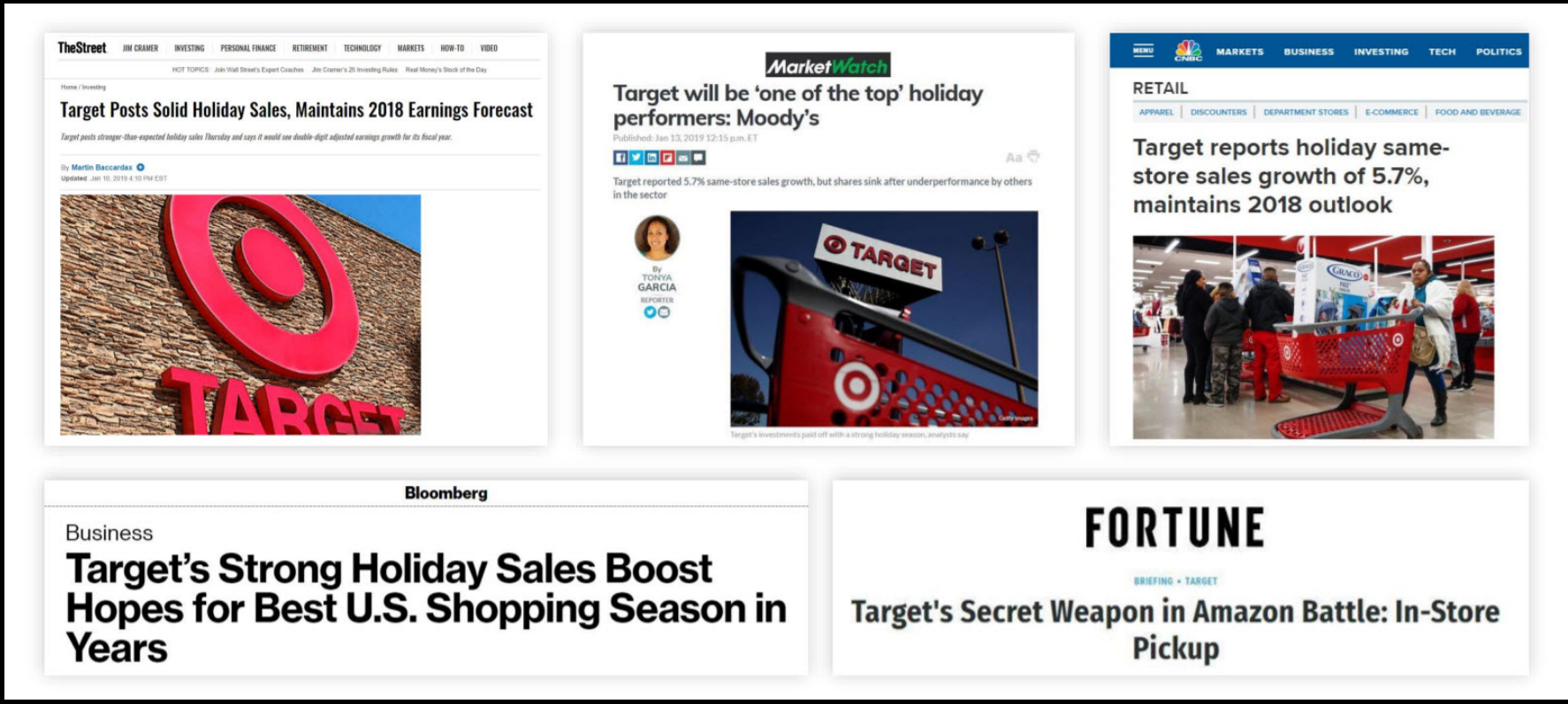


sw
(open source)

3
our challenges
Target Northern Campus
Guest Entrance

scaling for holiday 2018

- 2M unique guest Wi-Fi clients in a day
- 77TB of data transferred on guest Wi-Fi over two days



challenge

data center focus

challenge

People

4

keys to success

success enabler:

leadership support

success enabler:

Team

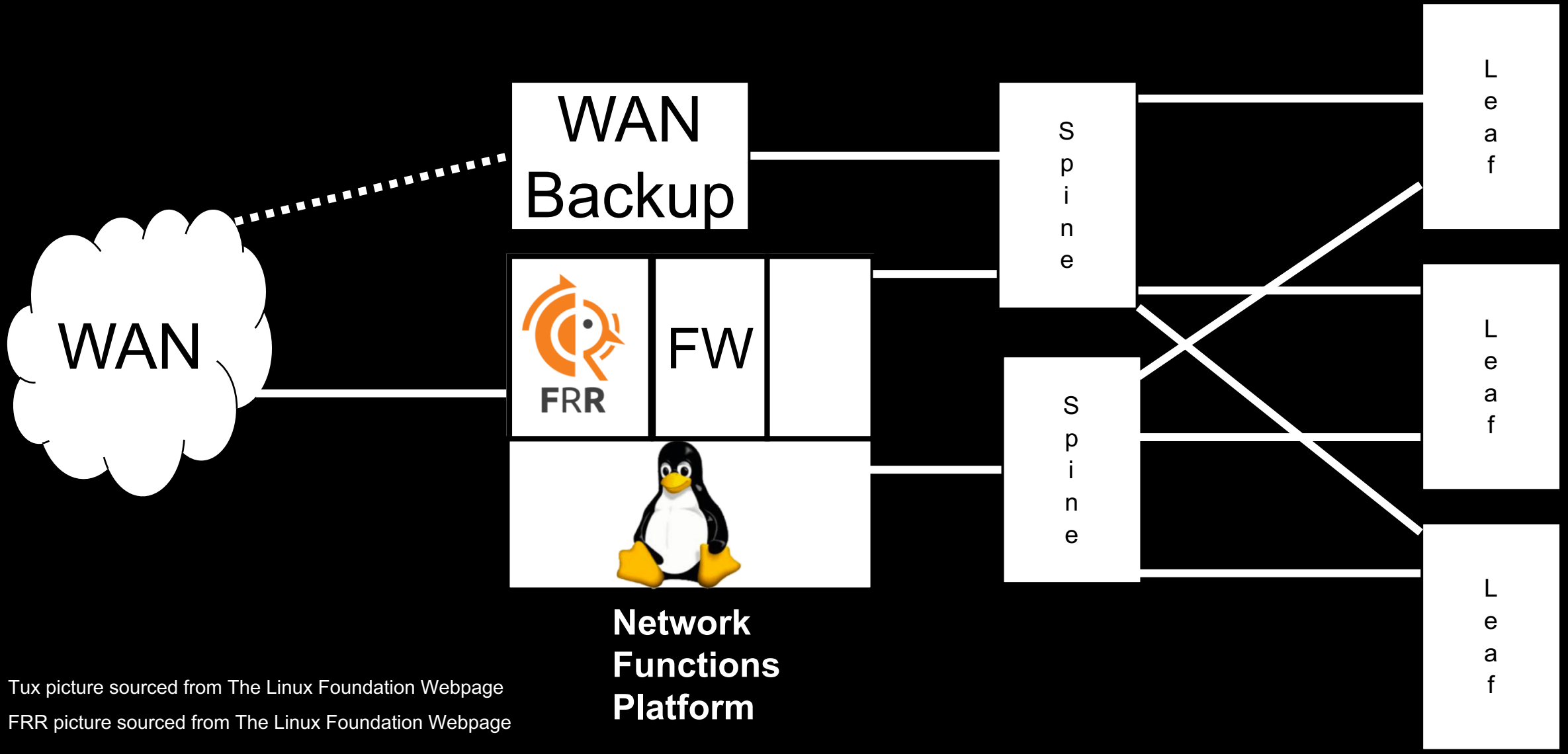
success enabler:

space

5

what we’re building

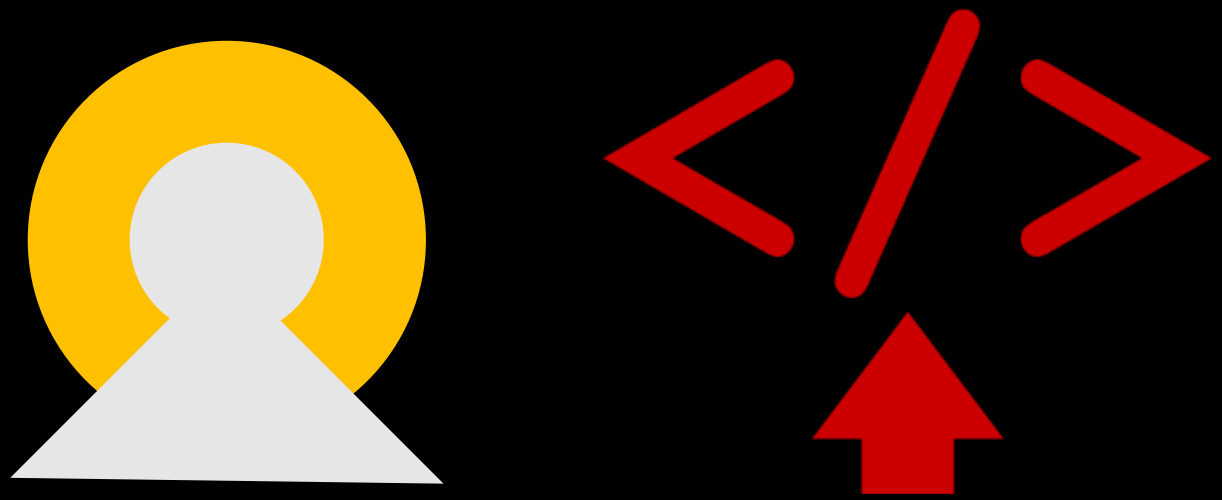
open first/commodity hardware



Tux picture sourced from The Linux Foundation Webpage

FRR picture sourced from The Linux Foundation Webpage

what’s next



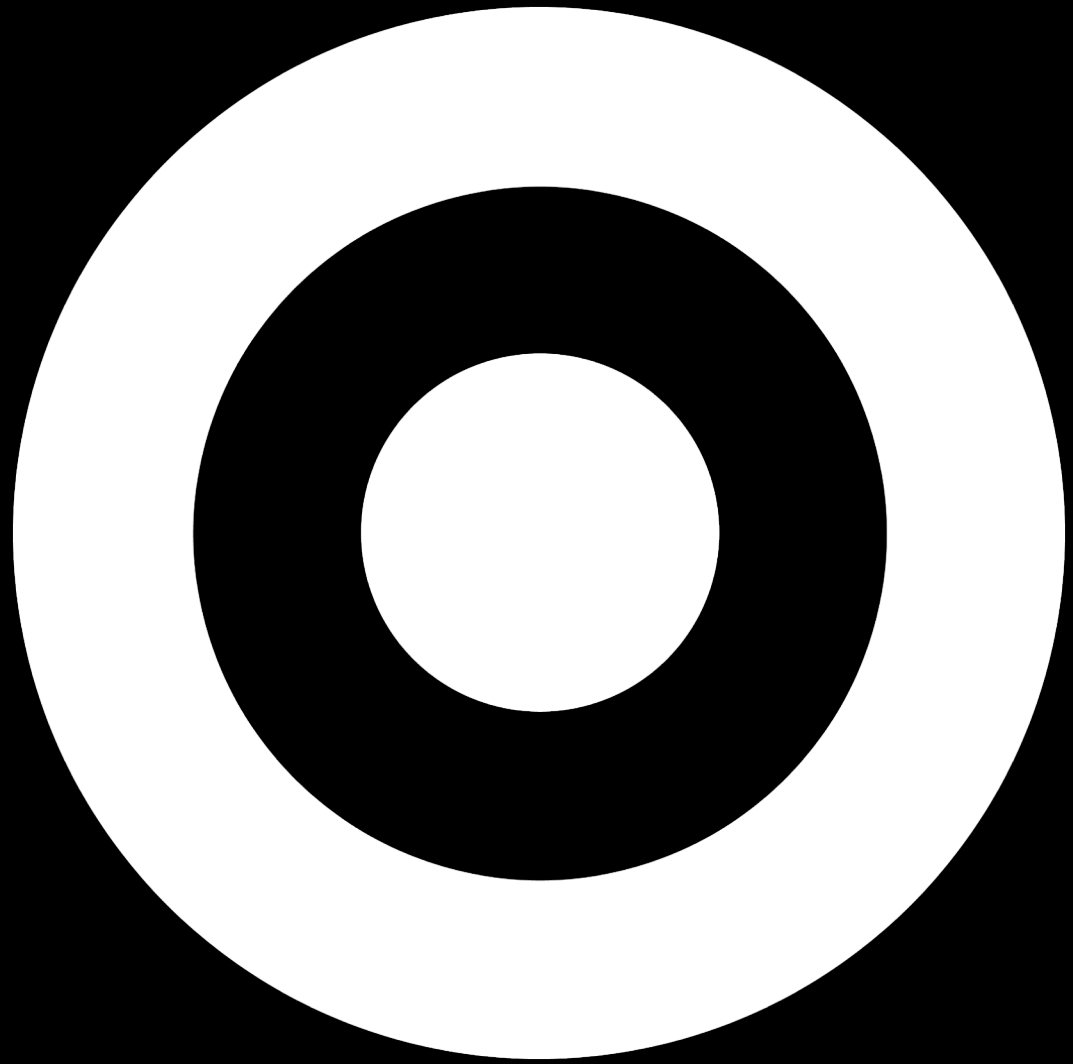
engage with Target Tech

> tech.target.com

Target Tech Blog
Target team members share their experience working with technology.

> target.com/careers

work somewhere you ❤

careers

thank you