CCP Berther - portability lapps to networks) - implementations (algs to datapaths) - using changing Set of network services - increasingly complex algs need to fit in - picking right implementation restrictive datapath unvs. these are not problems if you have lots of resources: -implement Compatibility for everything -enforce standardized operating environment -economics of scale: chase the last bit of perf.

Thow can we democratize applications' access to modern networks.

Snetworks are programmable, but require too much effort to actually program.

Deprogrammability unlocks applications' what of modern network features.

Delternative: APE lock-in from cloud providers.

19 Oct Mohammad feedback - Story is a little too complicated 2 simple nugget explainable in 23 mins snovelby/impact + Hechniques - setting up network stack is start with simple 3 sentence version and minimally appund > still think about 1-sentence statement: "abstractions that help apps deal we net complexity" is a bit vague : want a Crisper image wood at beith's story: need something casy to understand instead using custom libr in a piccineal way Fidumbpipes" way to express wheat they want is more about unasual Compositions Sattempting to desc. Some ways are very high level, other ways four on very specific examples. need a middle ground explanation: ad-hoc interfaces or composability + portability + Complex apps such sinterfaces > 2 trends work out returned about work out returns helpergouity > who interfaces > 2 trends work out Express what they actually want of the work? (architecture angle will stand out) new arch for modern upps that allow them to take adv. of new trends in networks exected level what makes me uniquely qualified " what is the bigger message 1- Apps rule the world + are very important in 2. apos have become complex (11pt font) +Scalability Lo Compose features, require SU tavail + pert due to high importance => result is complexity rel., perf. => embed libraries. which compare in unexpected ways, and ... -> make dess more productive constituency (apps) -> ders -o how are they golling Services they need - ad her is not weful -make CCP be a use case -s don't need to ceptain solution in the first part, only problem statement -> need mission statement -stie composition into teaching like doing (passion rdescription) excitement) Khow important (Sell the problem) Who cares?

9 March 2022 - why not have then server send a script to the client? (tertha) sperformance Steribility tradeoff: we don't actually went to have this script thing because we would have to ended all functionality incide which is a perf, instead w/ Bertha we can just switch between existing stacks which gets us a good level of both flex and perf. - extending Bertha for edge computing (Suture vorte) - explain what the difference is between Bertha and a wrapper library (in terms of portability, etc) Similarly, what is the difference tehneen Bortha and a proxy/tunnel for composability Grativate Bertha components and Bertha by providing a list of required features. - intro: new trends in apps, in technology, and in users: apps using comm. lits., tech for new high performance and flexibility.