

Team

A team with a 30+ years of combined experience building, deploying and managing networks



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The Problem

Mobile users want ubiquitous access to content with seamless user experience

Operators need innovative last mile solutions for enabling ubiquitous and ultra-fast access

Content providers and app developers need lightweight and ultra fast service delivery

Need for seamless user experience for challenged environments



Need for platforms for enabling local content generation, distribution and consumption



Mobile Web in Challenging Environments

Server Latencies are extremely high (>2-3 secs)

Recursive DNS lookups can be very expensive (>10-15 secs)

Web pages are unnecessarily complex (>100 objects)

Web content comes from several servers (>30)

Can we make mobile web content simple, ultra-lightweight, ultrasuper fast and provide a great user experience?



GAIUS Networks

Make content ultra-lightweight

Novel mobile app specification language

Lightweight content ad platform

Make content ubiquitous & faster

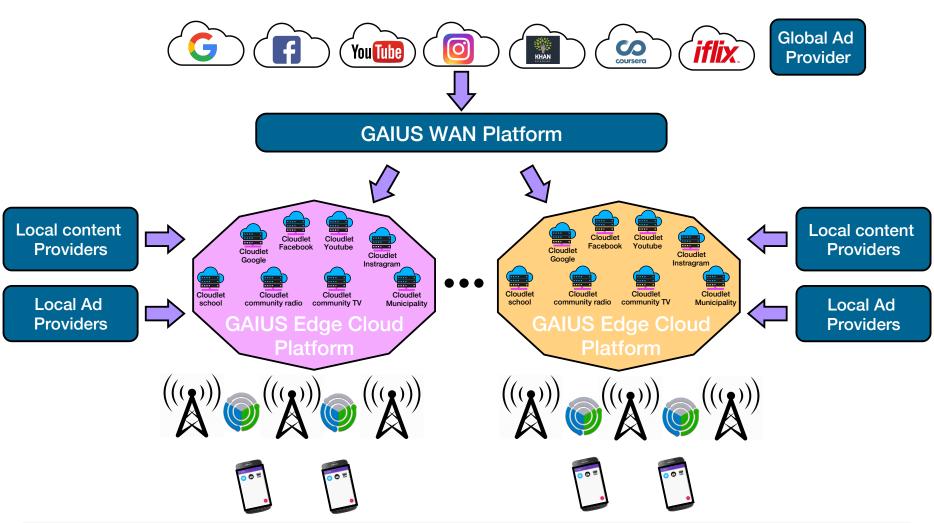
High performance mobile stack

Scalable edge cloud platform

Highly optimised content diffusion framework



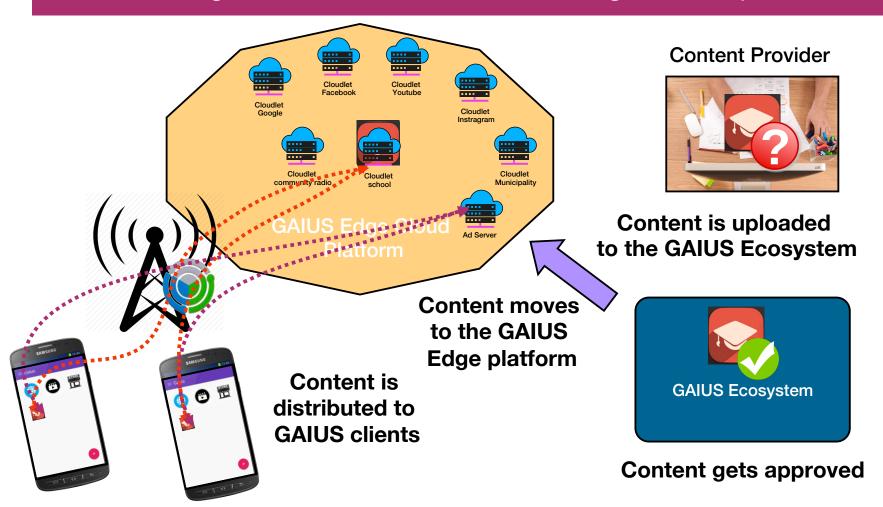
GAIUS Networks Ecosystem





An edge content ecosystem

Enabling a local content and ad exchange market place



App communicates with the local app server + relevant ads are served



GAIUS App

Lightweight app designed for content consumption and creation



Built on top of the GAIUS framework

Use new application specification language (MAML)

New efficient transport delivery protocol (ALCC)



Novel Mobile Specification Language (MAML)

MAML simplifies heavyweight and needlessly complex HTML pages

Ultra Lightweight

Flat structure

Eliminate recursive requests

Clients are sent a complete digest of a web page to optimise content for user experience



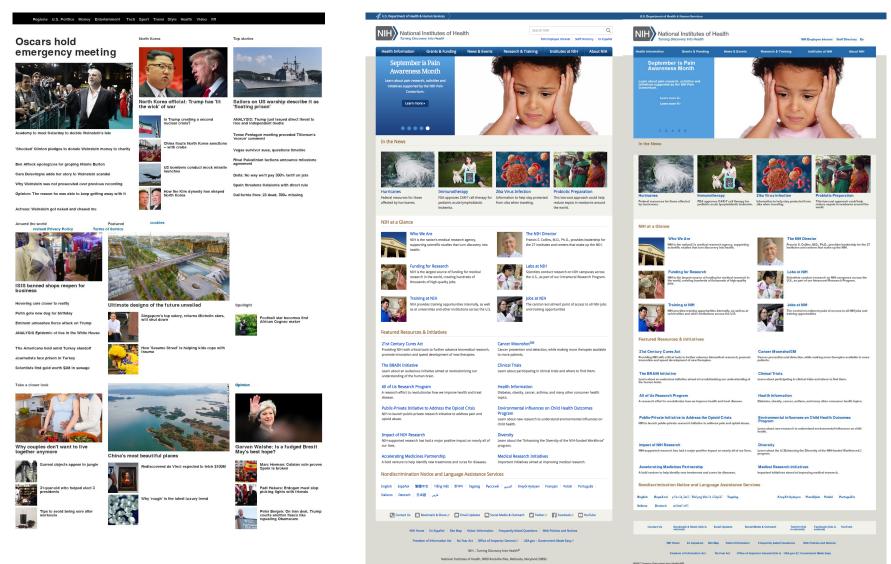
Moment Venus Williams breaks down in tears and storms out of a Wimbledon press conference as she is asked for the first time about deadly Florida car crash she is accused of causing



Venus Williams broke down in learn at Winnbeldon on Monday; as a live was questioned about the deady? Fordic crash she was invoked in last morth (left). The 27-year-old involvement with the properties of the pr

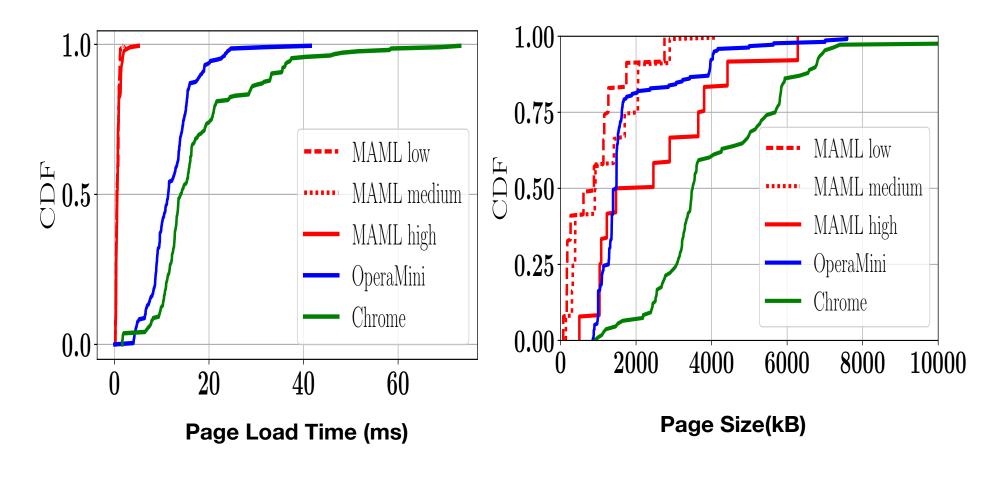


Example MAML pages



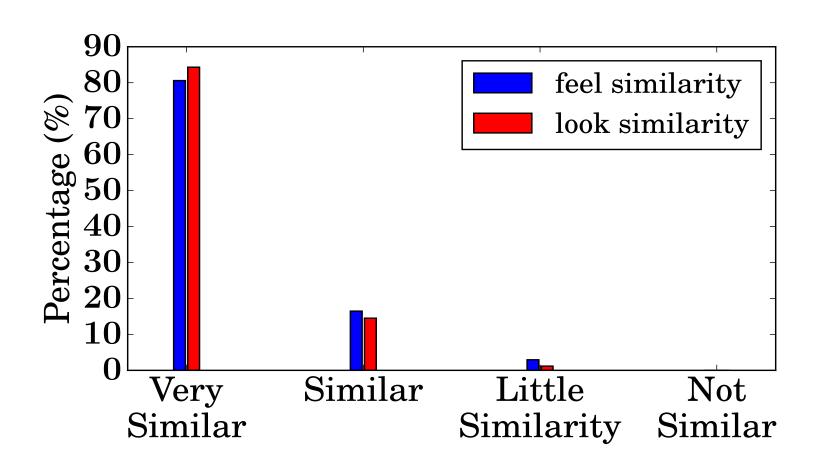


MAML vs Opera Mini and Chrome





What do users think?





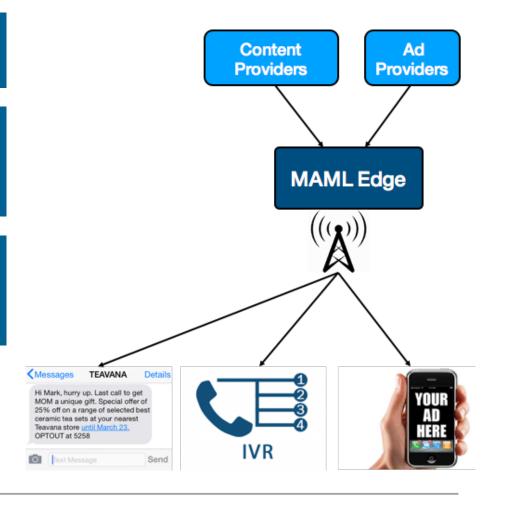
Lightweight Content-Ad Platform

Enabling a local content and ad exchange market place

Local and Global ad provisioning

Local storage of ads - bandwidth & energy savings for operator and users

Support for feature and smartphones: ad delivery through sms, calls and data





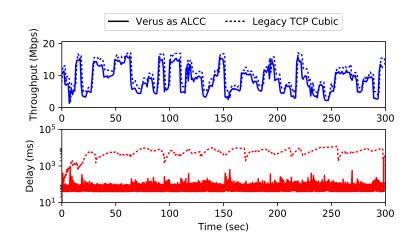
High Performance Mobile Stack

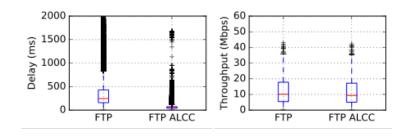
Efficient congestion control for cellular/wireless links

Upto 1/15 reduction in delay with the same overall throughput

Zero-byte protocol overhead

Extremely lightweight and easy to integrate to applications e.g. VR mobile gaming







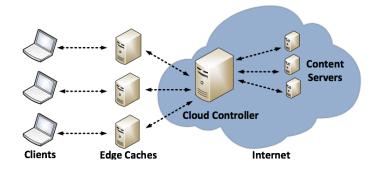
Optimised Content Diffusion

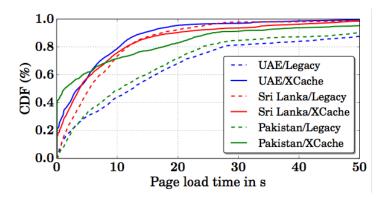
Novel solution for rapid & intelligent diffusion of content from cloud to edges

Enhance cache hit rate with minimal bandwidth overhead

Proactively profile popular pages

Maintains liveness of popular content







Thank you!

Questions?

