MOSA: A Mobile Offloading Architecture using Software-defined network

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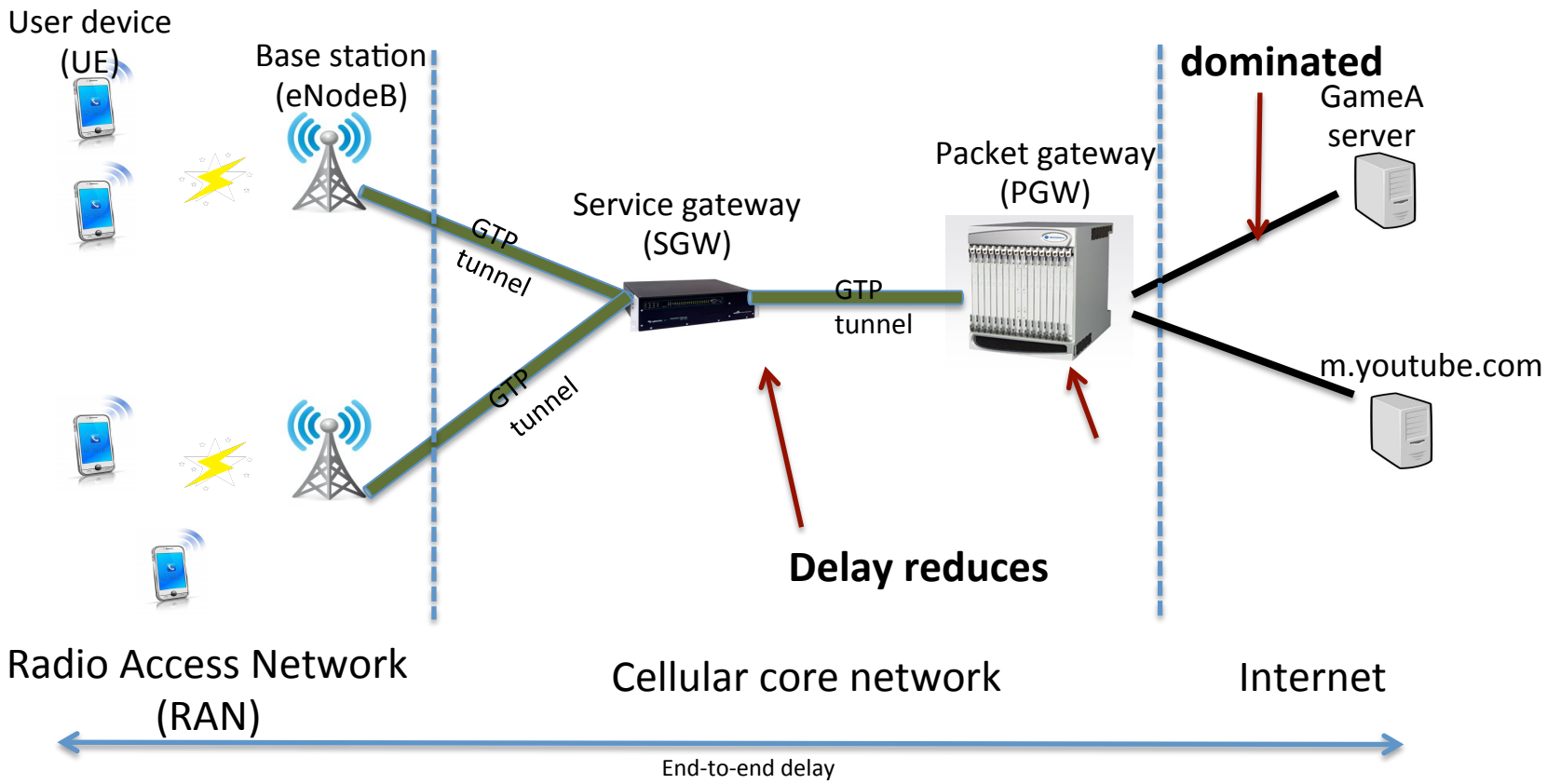
Outline

- Motivation & related works.
- Architecture.
- Implementation.
- Evaluation.
- Conclusion.

Motivation

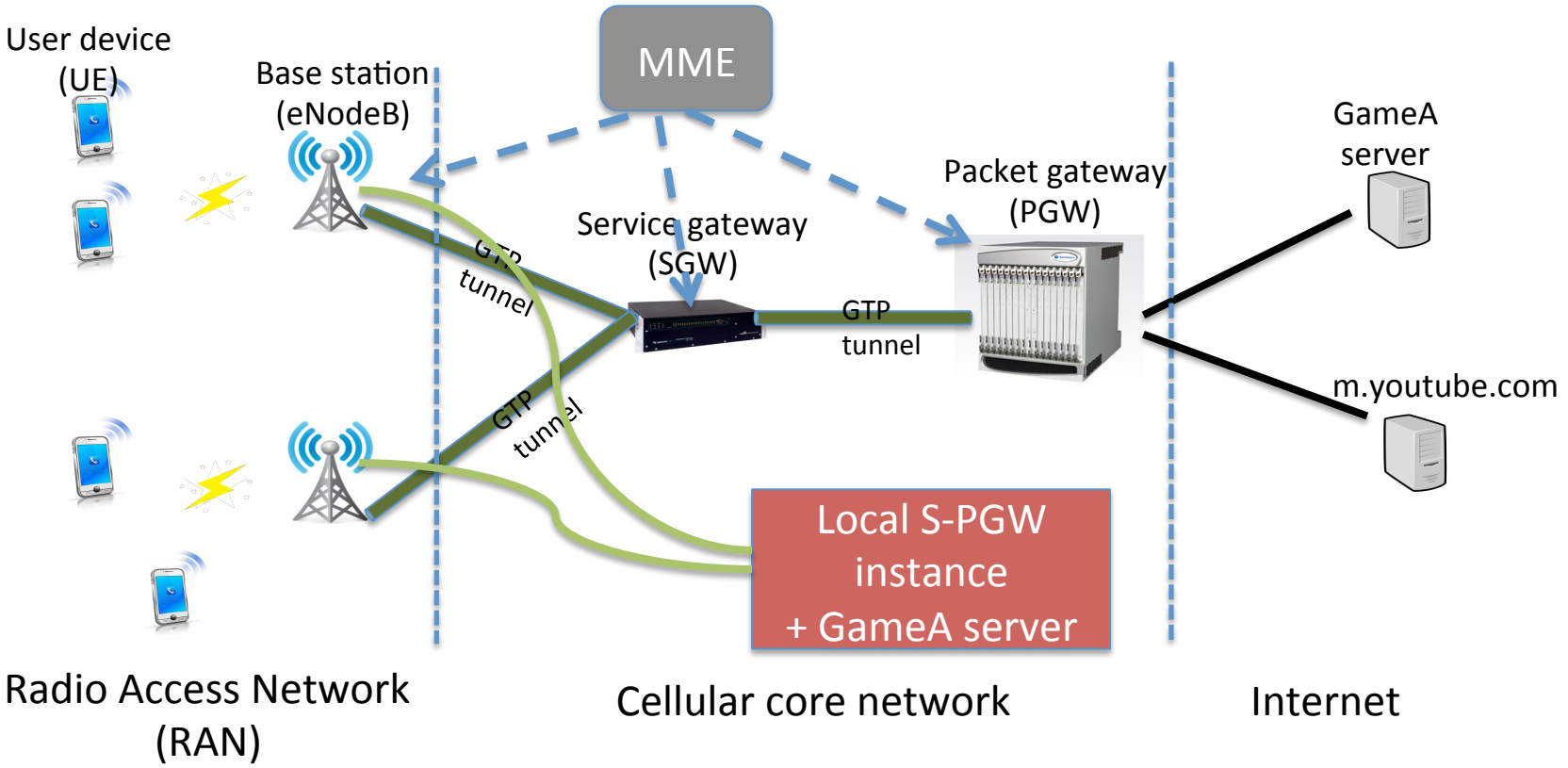


- Quality of service (QoS) requirement.
- Flat core design leads to a dominance of the Internet delay (the speed of light constraint).
- Inside the core: hierarchical routing issue.
- Business model.

=> An approach that is able to “deeply” reduce the end-to-end delay.

MOCA

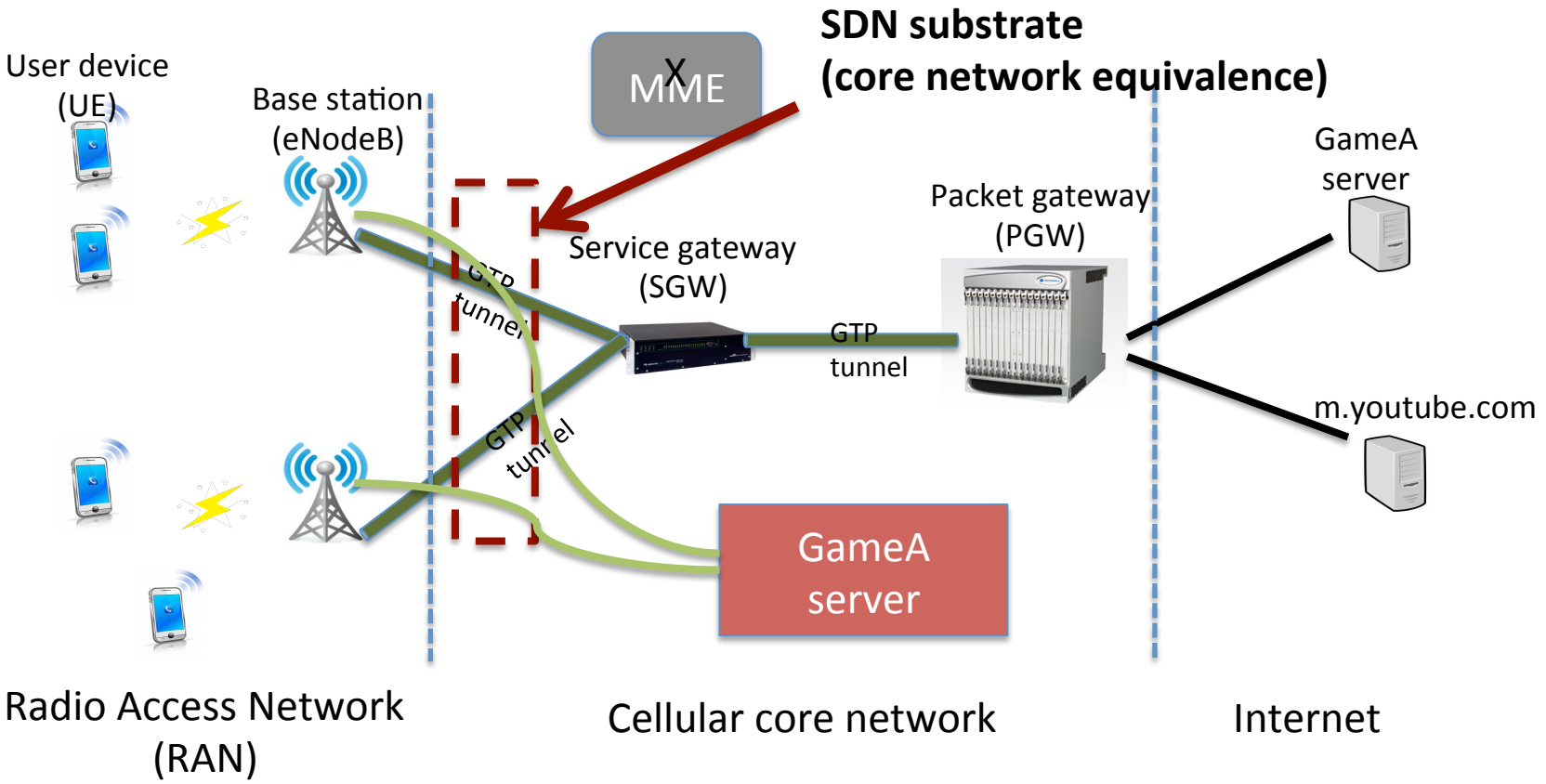
- An Architecture for Mobile Offloading using Cloud.
- Offloading traffic by creating **new tunnels** to a local SPGW instance and server.
- Modifying the control plane (Mobility Management Entity - MME) of the network to realize the above goal.



MOSA

- **Question:** an offloading architecture **using SDN without modifying** the current components?

- Only snooping the control plane is needed.



Architecture overview