SOLVING TRAFFIC
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#RISCVSUMMIT | tmt.knect365.com/risc-v-summit/
Los Angeles Traffic

128hr
Driving time spent in congestion

14mph
Inner city last mile speed

$1,788
Cost of congestion per driver

* Data provided by INRIX, 2018 traffic report
History of traffic light

POLICE NOTICE on, 1868

By the Signal "CAUTION," Vehicles and Horses are warned to take care, and due regard to the safety of the Pedestrians.

The Signal "STOP," will only be given necessary that Vehicles and Horses stop on each side of the Crossing, to allow them to pass, and notice being thus given to pedestrians and the Vehicles and Horses to stop clear.

RICHARD HENRY

#RISCVSUMMIT | tmt.knect365.com/risc-v-summit/ www.chronostech.com
Synchronized Traffic Lights

In 2013 L.A. became the first major city to synchronize all its 4,400 traffic lights!
Issues with Synchronization

If Grandpa goes slow...
Roundabouts

Europe and Asia have been quite successful with the implementation of roundabouts
Can We Do it Better?

Autonomous Driving
• SoC fabric for optimal PPA
• True on-silicon performance measurement
• **TileLink** and AMBA compatible

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<tr>
<th>Metric</th>
<th>Advantage</th>
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<tr>
<td>Latency</td>
<td>4X reduction</td>
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<tr>
<td>Routing</td>
<td>2X Reduction</td>
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**SoC w/ Rocket-Chip, Memories, Peripherals and Chronos TileLink channels**
Thank You

“The electric light did not come from the continuous improvement of candles”

(Prof. Oren Harari)