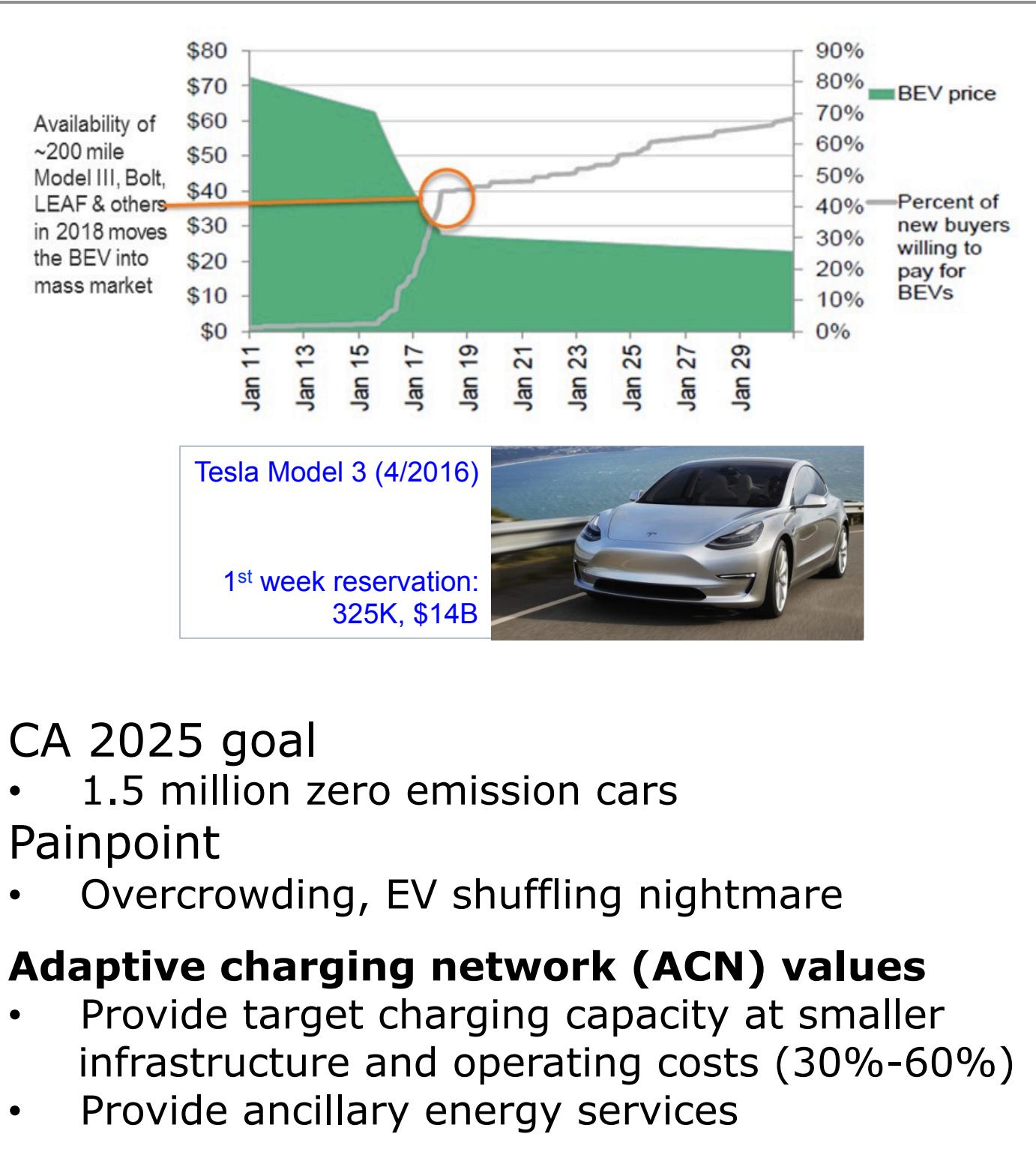




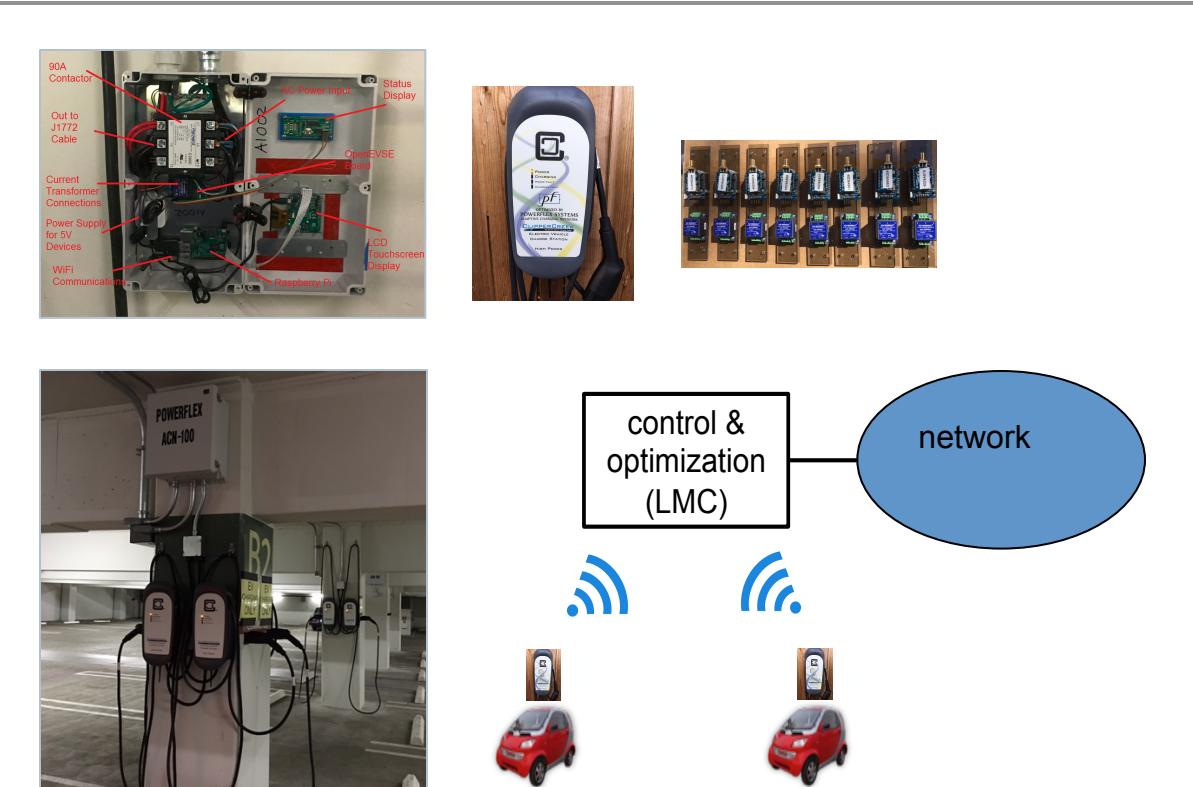
Adaptive Charging Network

Prof Steven Low, Netlab

Opportunity



Technology



Network of adaptive EV chargers

Scalable scheduling algorithms

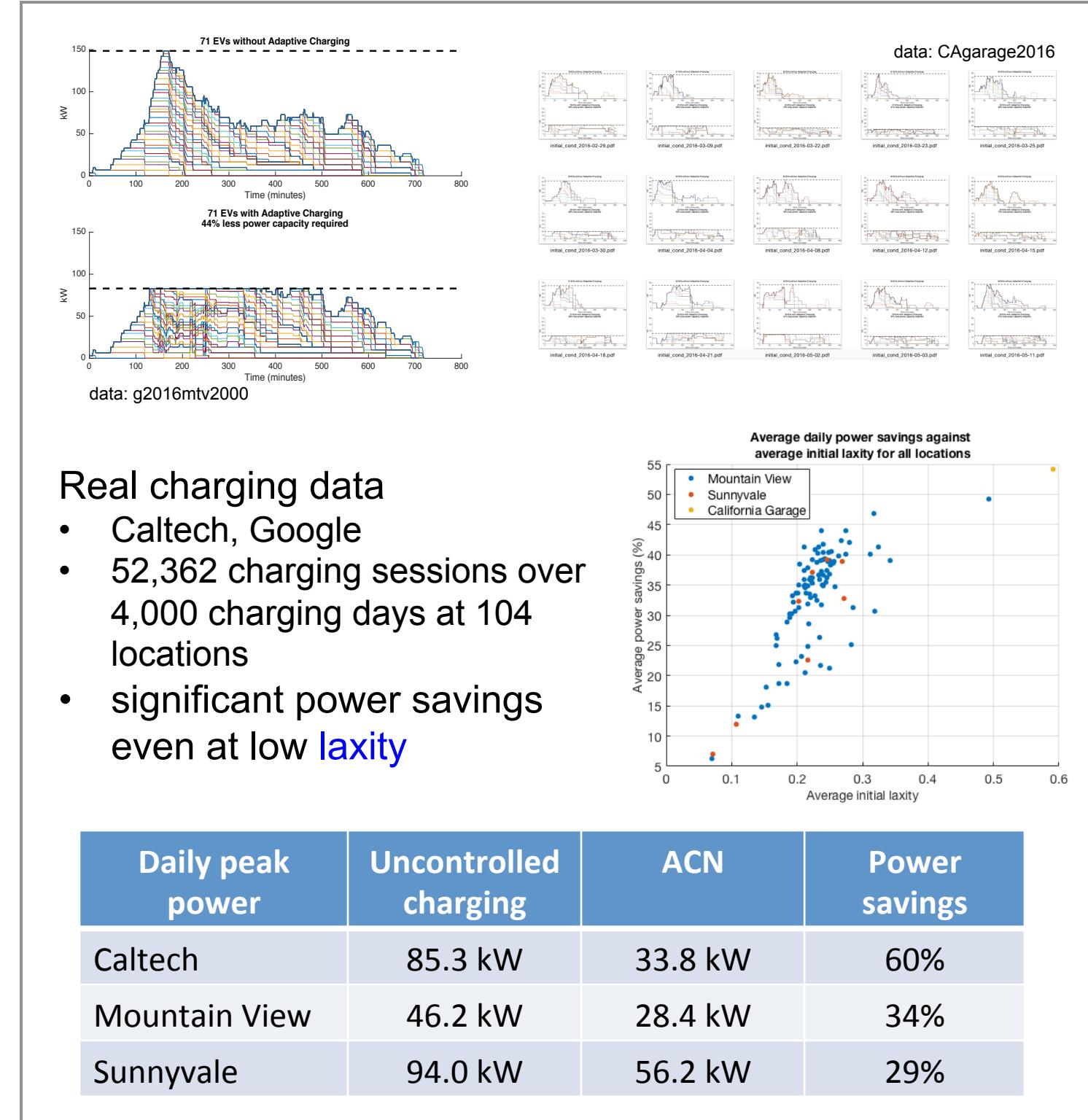
Management software

$$\begin{aligned} \text{LP}(t): \quad & \min_{r \geq 0} \quad C_t(r) \\ \text{s.t.} \quad & r_i(\tau) \leq \bar{r}_i(\tau), \quad \tau \geq t \\ & \sum_{\tau=t}^{T-1} r_i(\tau) \delta = e_i(t) \\ & \sum_{\tau=t}^T r_i(\tau) \leq P(\tau), \quad \tau \geq t \end{aligned}$$

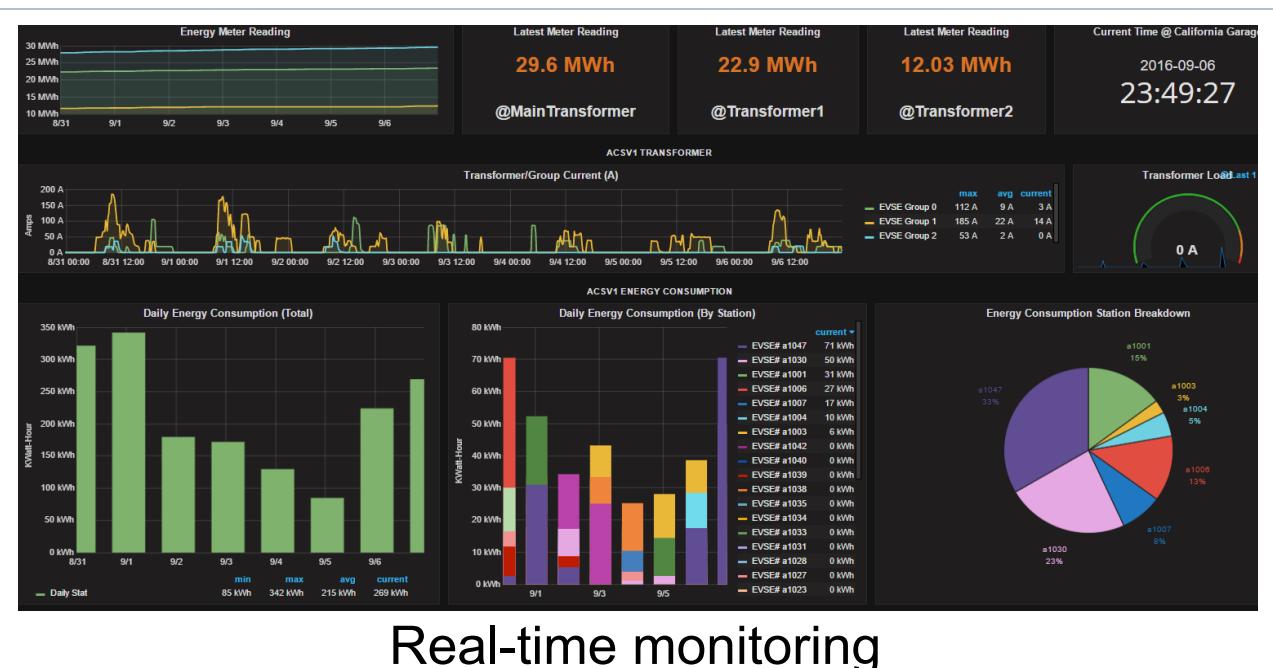
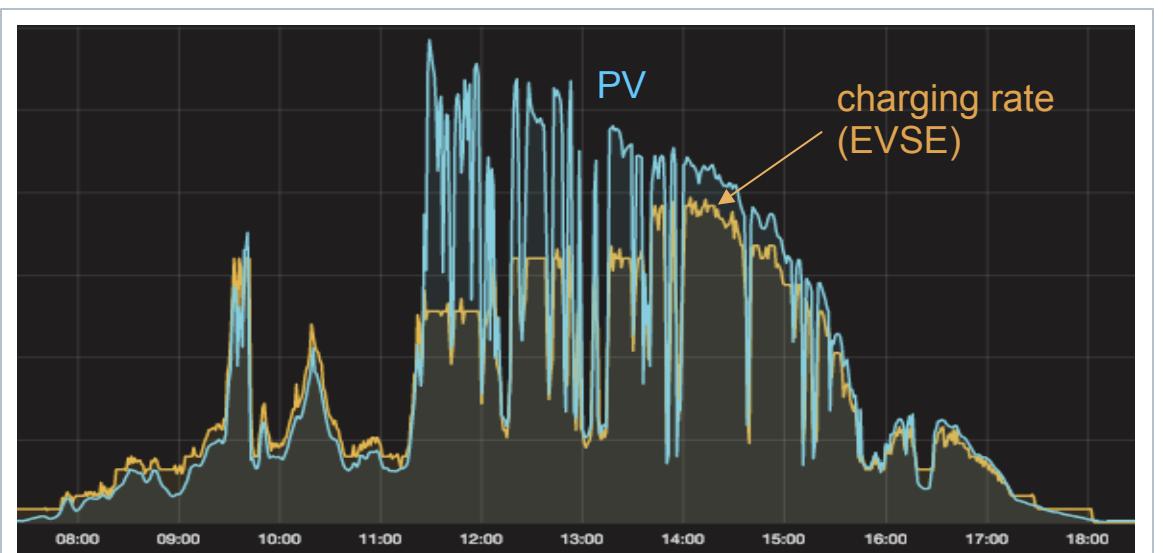
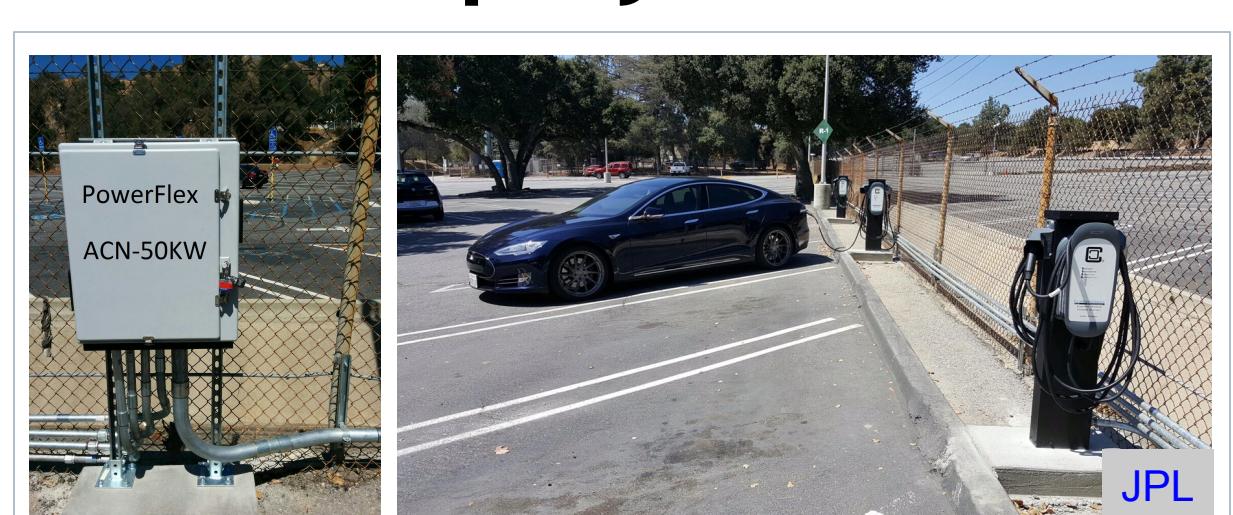
Online LP algorithm

Theorem

Performance



Deployment



People

D. Chang, D. Guo, R. Lee, T. Lee, Z. Lee, S. Low
J. Onderdonk, C. Ortega (Caltech)
G. Lee (PowerFlex)
K. Eriksson (Lund, Sweden), Z. Low (Cornell)