A3: <problem statement>

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Background — PLAN

Finding parking can take a very long time. This leads to people becoming frustrated and sometimes leaving, economically affecting the place where the person was going and the area surrounding it.

Current condition — PLAN

Currently, [motorists spend 17 hours a year searching for parking spots, and approximately $345 per driver in wasted time, fuel, and emissions](). This is specially worse at larger cities.

Goal / Target Condition — PLAN

- Decrease the time it takes to find a parking spot.
- Provide available parking information to drivers in an area.

Root Cause Analysis — PLAN

- Finding parking can take a very long time.
  - **Why?** Lack of a way to determine where there is parking available
    - **Why?** Expensive
      - **Why?** There are currently very little or no systems in place to determine where parking is available.
        - **Why?** Lack of planning ahead for this problem
          - **Why?** Possible wrong estimate of how many people would be at a certain place at a certain time with the need to park.

Countermeasures (experiments) — DO

- Develop an application where people can see available parking in a given area.

Impact — CHECK

- Less wait time for the person looking for parking
- Increased local economy in the area that needed parking

Follow up (actions) — ACT

- Continue improving the application