99% SEDIMENT YIELD REDUCTION IN TWO EASY STEPS

A CASE STUDY

ALDOT ENVIRONMENTAL

AN EVOLUTION OF THINKING, FOCUS, AND APPLICATION (PHILOSOPHY)

ENVIRONMENTAL VISION:

AN INTEGRATED ENVIRONMENTAL CULTURE…

ALDOT'S MISSION:

TO PROVIDE A TRANSPORTATION SYSTEM…

MISSION

environmental
RESPONSIBILITIES

ALDOT ENVIRONMENTAL

AN EVOLUTION OF THINKING, FOCUS, AND APPLICATION (TECHNICAL)

EVOLUTION

EFFECTIVENESS	➡	**COMMUNICATION**
IMPLEMENTATION	➡	**WORK**
CAUSE	➡	**WATER**
SOURCE	➡	**EROSION**
SYMPTOM	➡	**SEDIMENT**

$$A = \cancel{R\,K\,LS\,C\,P}$$

A = sediment yield tons/acre/year

A CASE STUDY

Project Mission:
- to add two lanes to a section of I20/59 in Tuscaloosa

- Widen to inside
- Governor priority
- April letting

A CASE STUDY

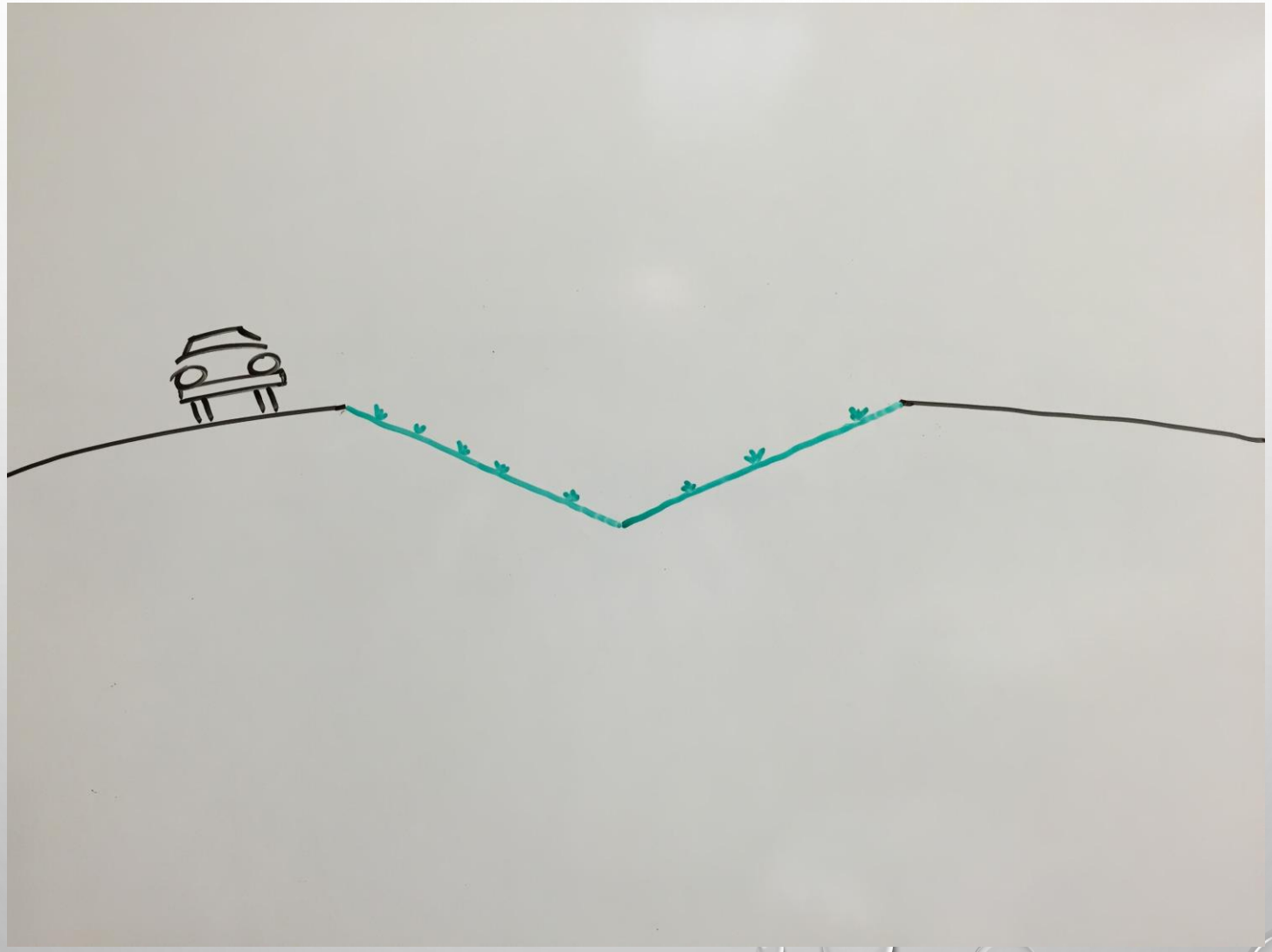
- MISSION:

A CASE STUDY

MISSION:

A CASE STUDY

MISSION:



A CASE STUDY

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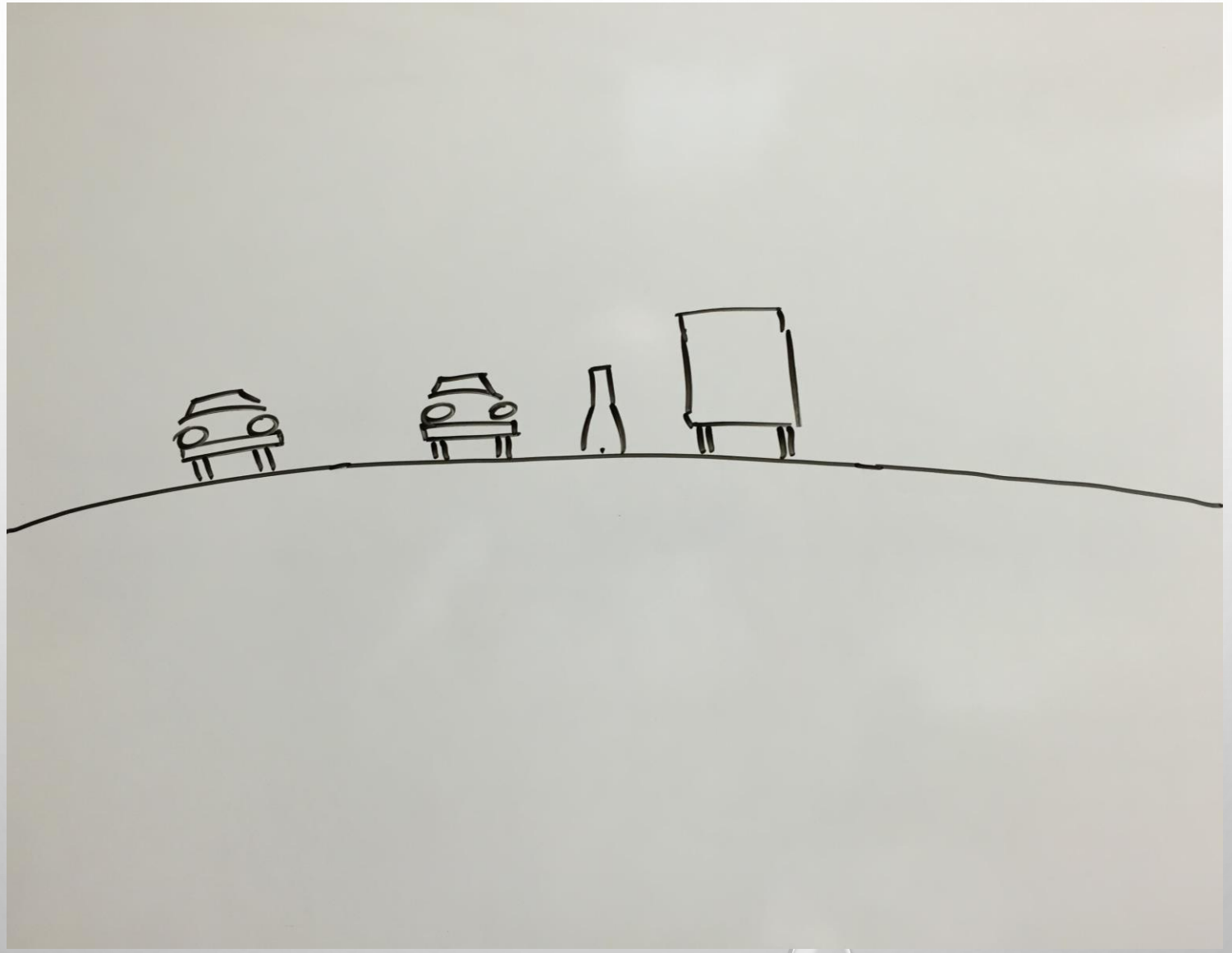

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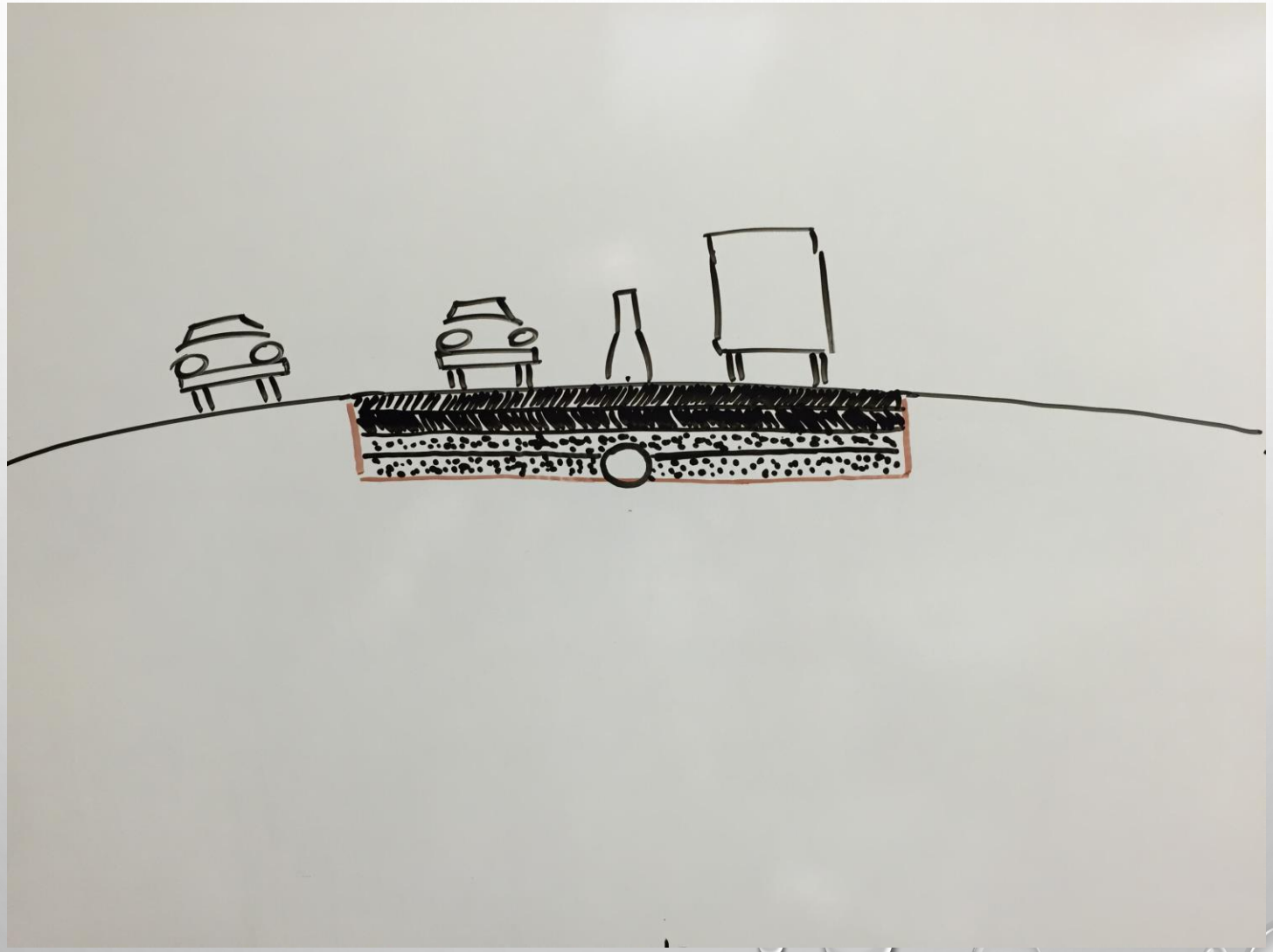
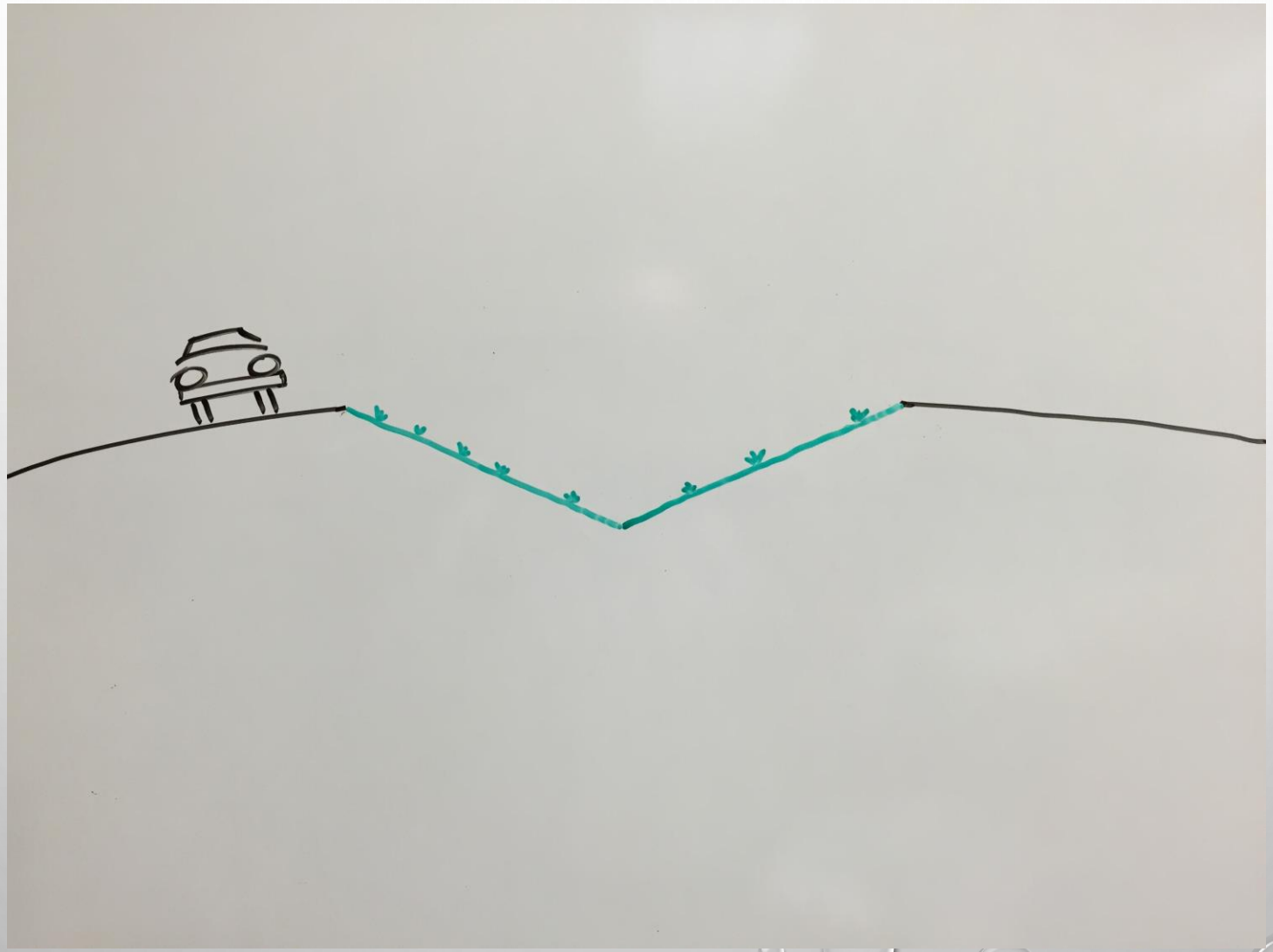


A CASE STUDY

ACTIVITIES:



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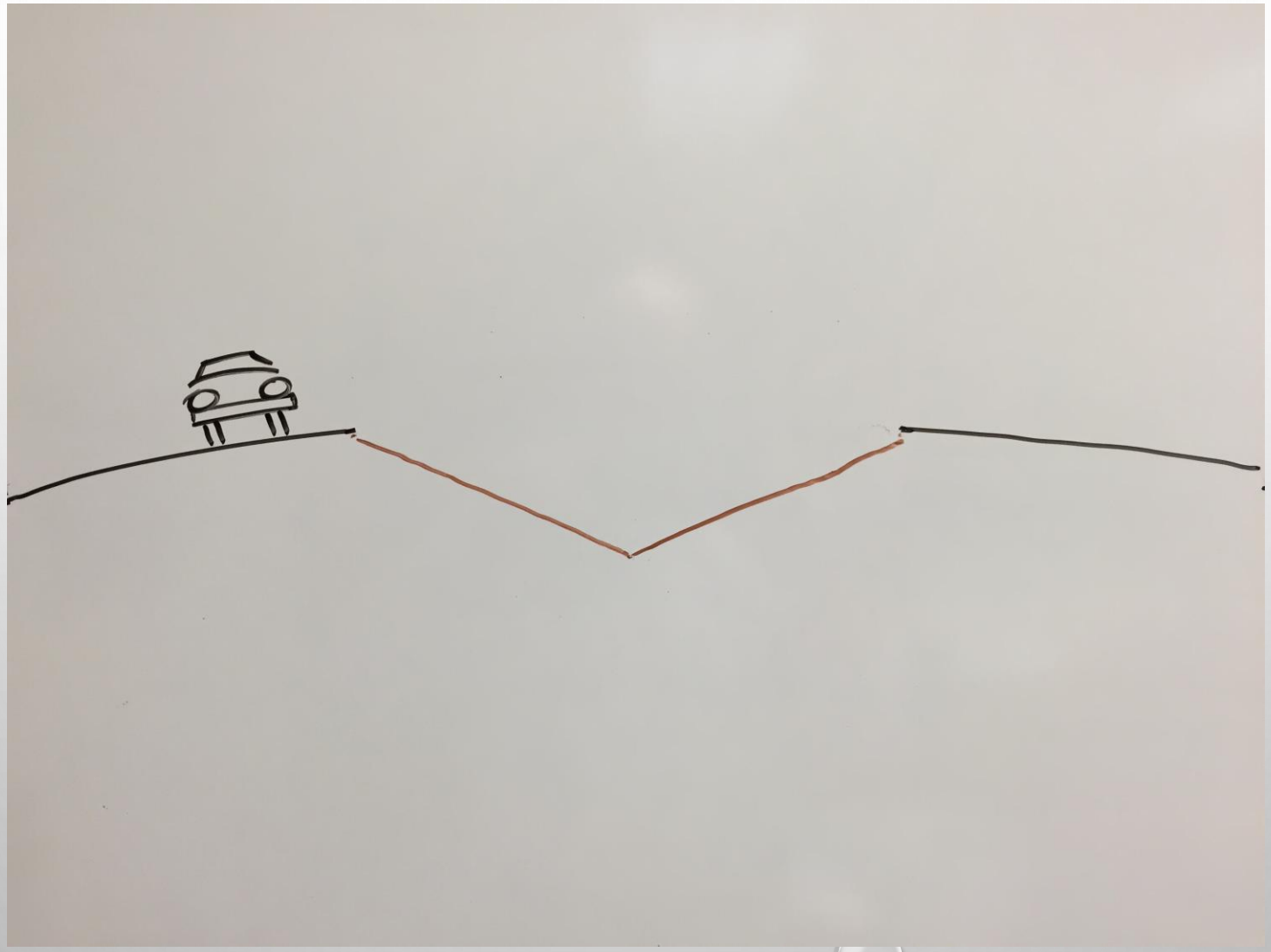

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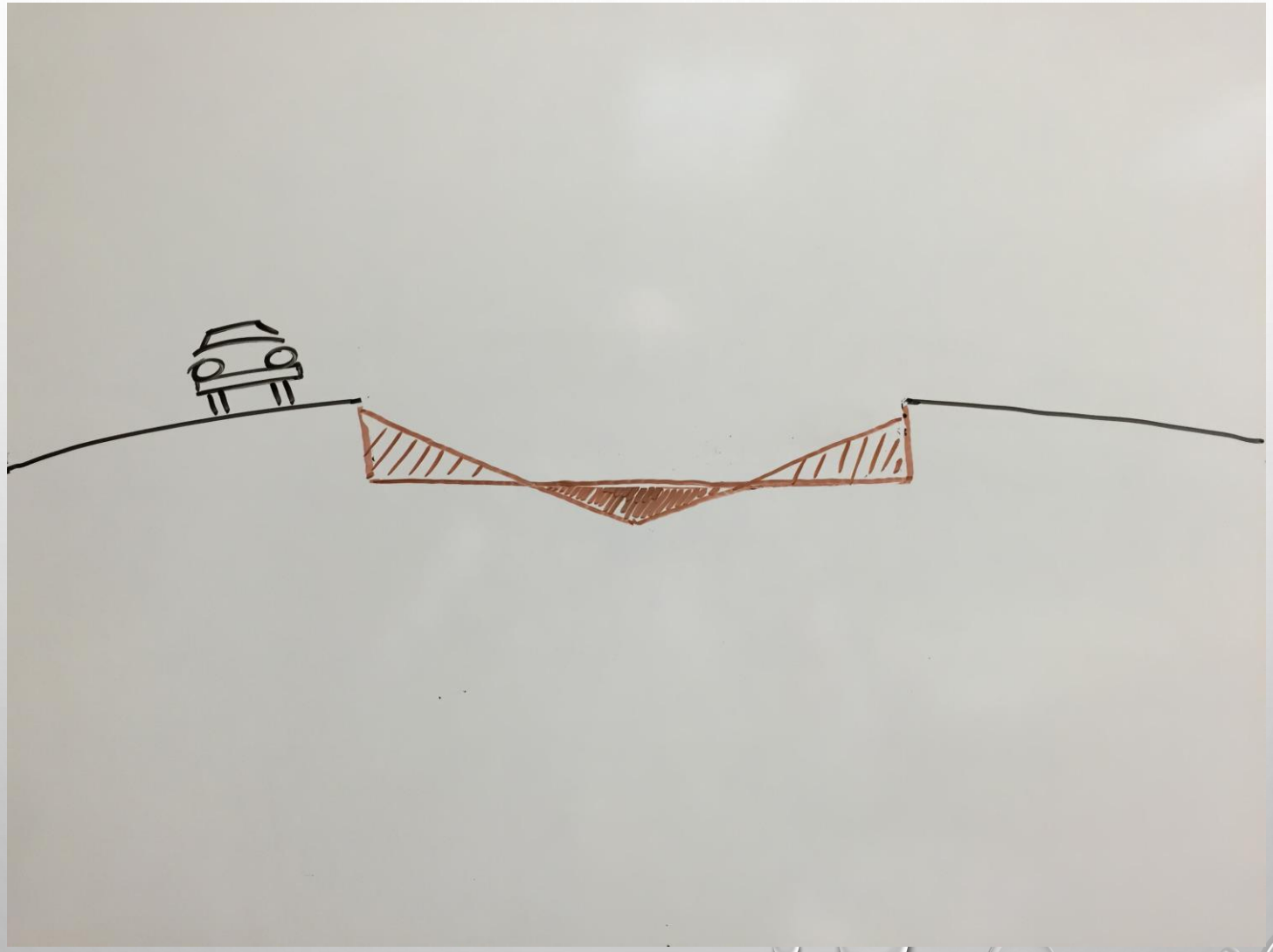

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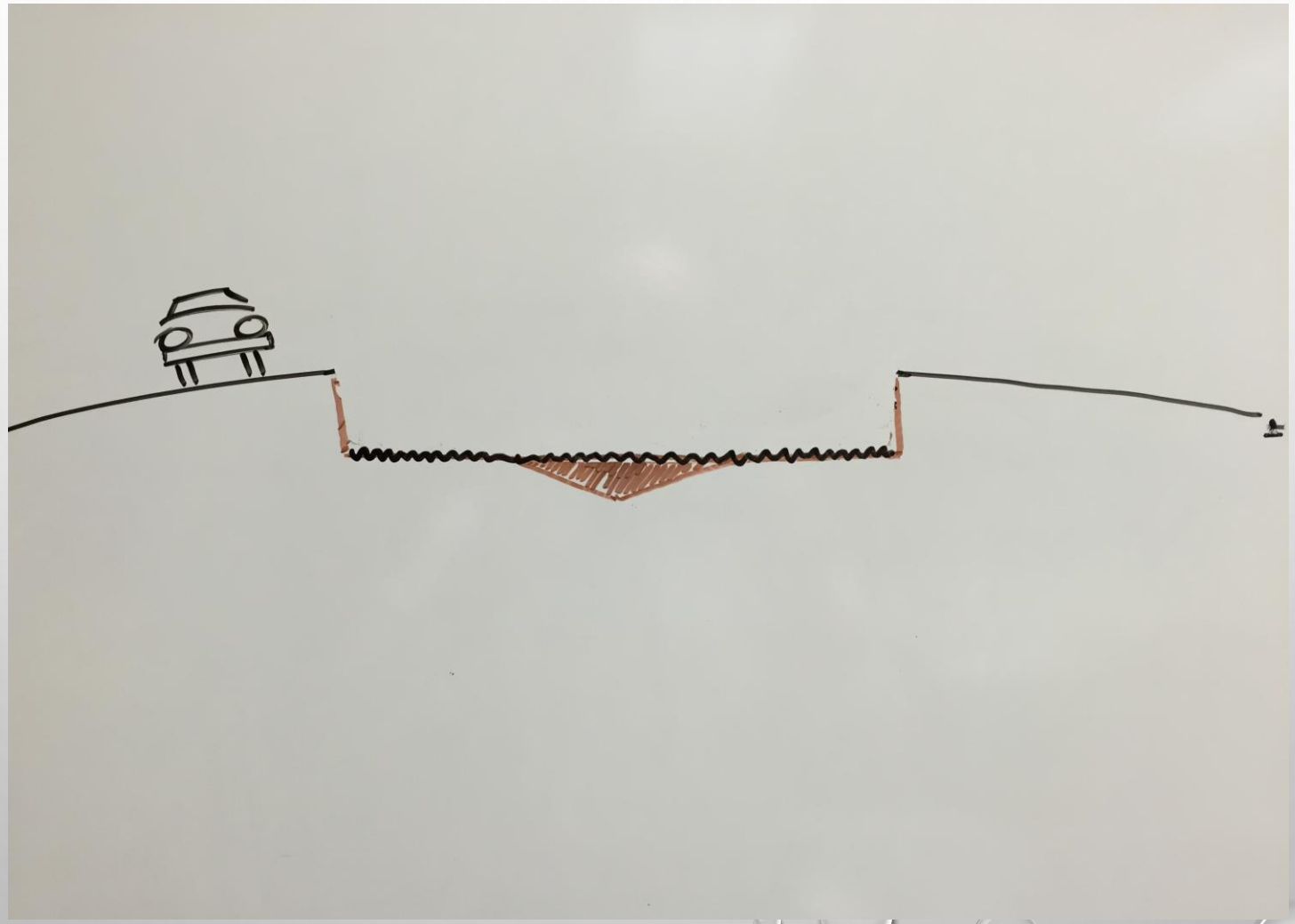
ACTIVITIES:



A CASE STUDY

ACTIVITIES:

A CASE STUDY

ACTIVITIES:

A CASE STUDY

ACTIVITIES:

KOMATSU
E-136
PC
400

TRADITIONAL

ALTERNATE

"WE CAN'T DICTATE THE CONTRACTOR'S MEANS AND METHODS… CAN WE?"

- WHY NOT?
- THE CONTRACTOR WORKS FOR US, RIGHT?
- WE HAVE DIFFERENT INTERESTS.
- WE HAVE EXPERTISE WHERE THEY DON'T.

"DIDN'T THAT SLOW PRODUCTION?"

- CONTRACTOR:
  - "WE MAY HAVE BEEN SHUT DOWN FOR A DAY AFTER A RAIN, NOT A WEEK."
  - "UNLESS THE RAIN WAS FALLING, WE WERE WORKING."

"DIDN'T THAT SLOW PRODUCTION?"

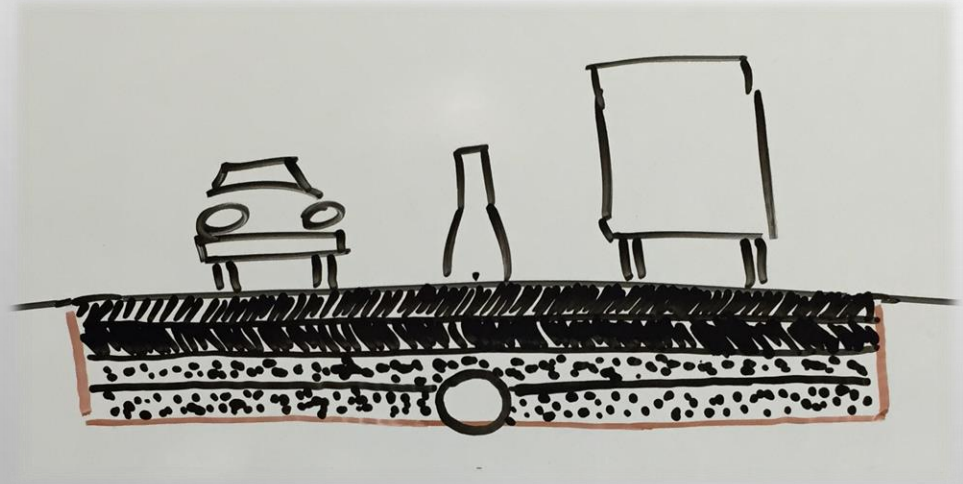
- CONTRACTOR:
  - "WE WOULD HAVE WAITED UNTIL APRIL TO START RATHER THAN LAST NOVEMBER… AND WE WOULD NOT HAVE BEEN SHIFTING TRAFFIC TODAY."
  - "PRODUCTION WAS INCREASED BY AT LEAST 35%."

“WHAT ABOUT QUALITY?”

“This is actually a better structural buildup.”

- Lyndi Blackburn, P.E.

ALDOT Asst. State Materials & Tests Engineer



"IF YOU DON'T MIND ME ASKIN', HOW MUCH DID SHE SET YOU BACK?"

- SIGNIFICANT DIRECT CONTRACT COST INCREASES

  NOT CONSIDERING SAVINGS DUE TO IMPROVEMENTS IN -

  - SAFETY
  - REDUCTION IN TRAFFIC DELAYS
  - PRODUCTION
  - HEADACHE

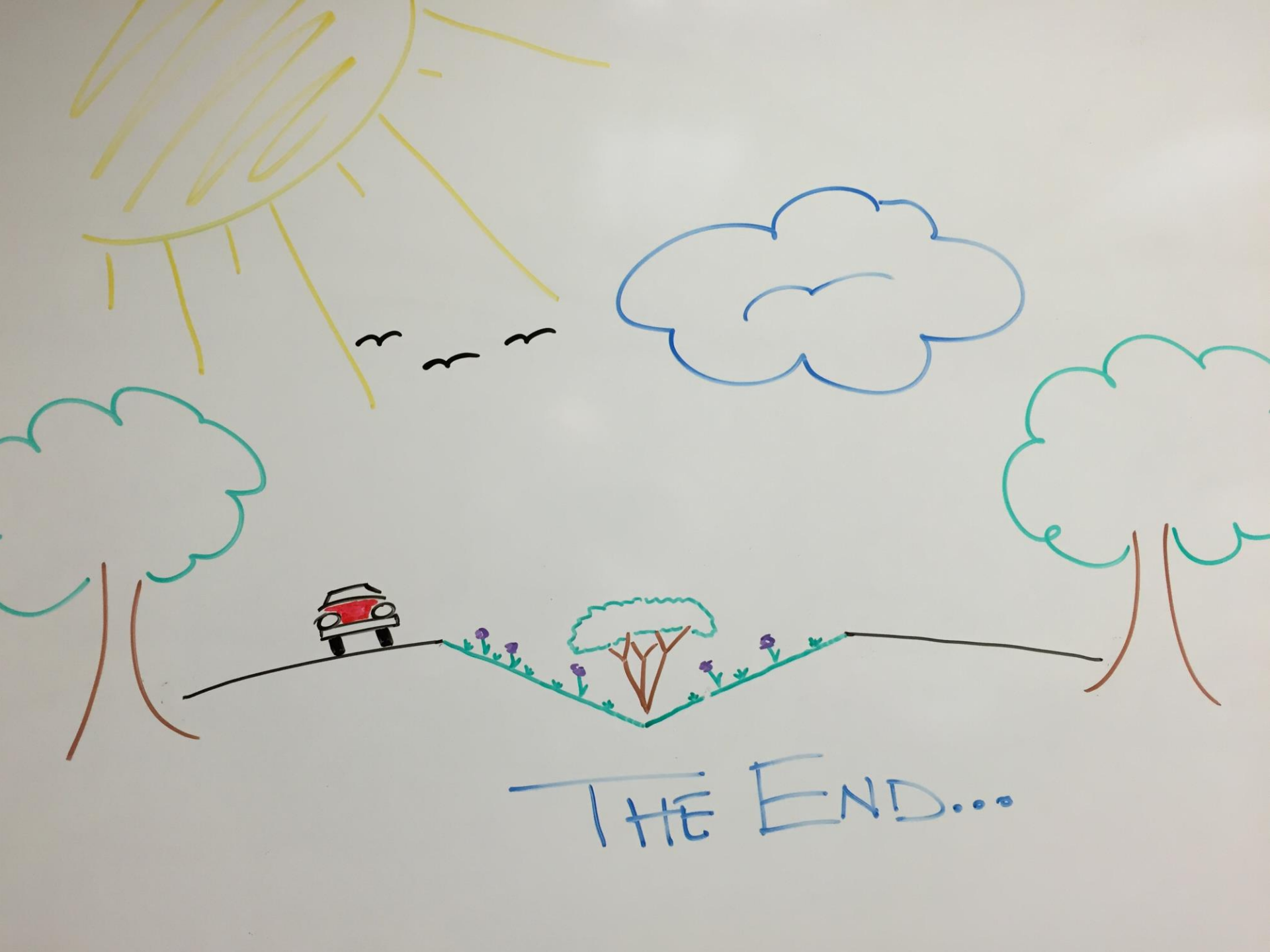
DO YOU REALIZE WHAT WE JUST DID?

- ENVIRONMENTAL PROTECTION, WITH BENEFITS IN…
  - QUALITY
  - SAFETY
  - TRAFFIC
  - PRODUCTION
  - COST

"I HAVE NEVER SEEN A BETTER RUN ROAD PROJECT BY ALDOT."

"THAT DOESN'T MEAN I BELIEVE THEY CAN BUILD THE EASTERN (BOONDOGLE EXPRESSWAY) BYPASS WITH THE SAME CONTROL. WE'LL SEE."

- John Wathen
  Hurricane Creekkeeper Blog
  June, 2015


THE END...