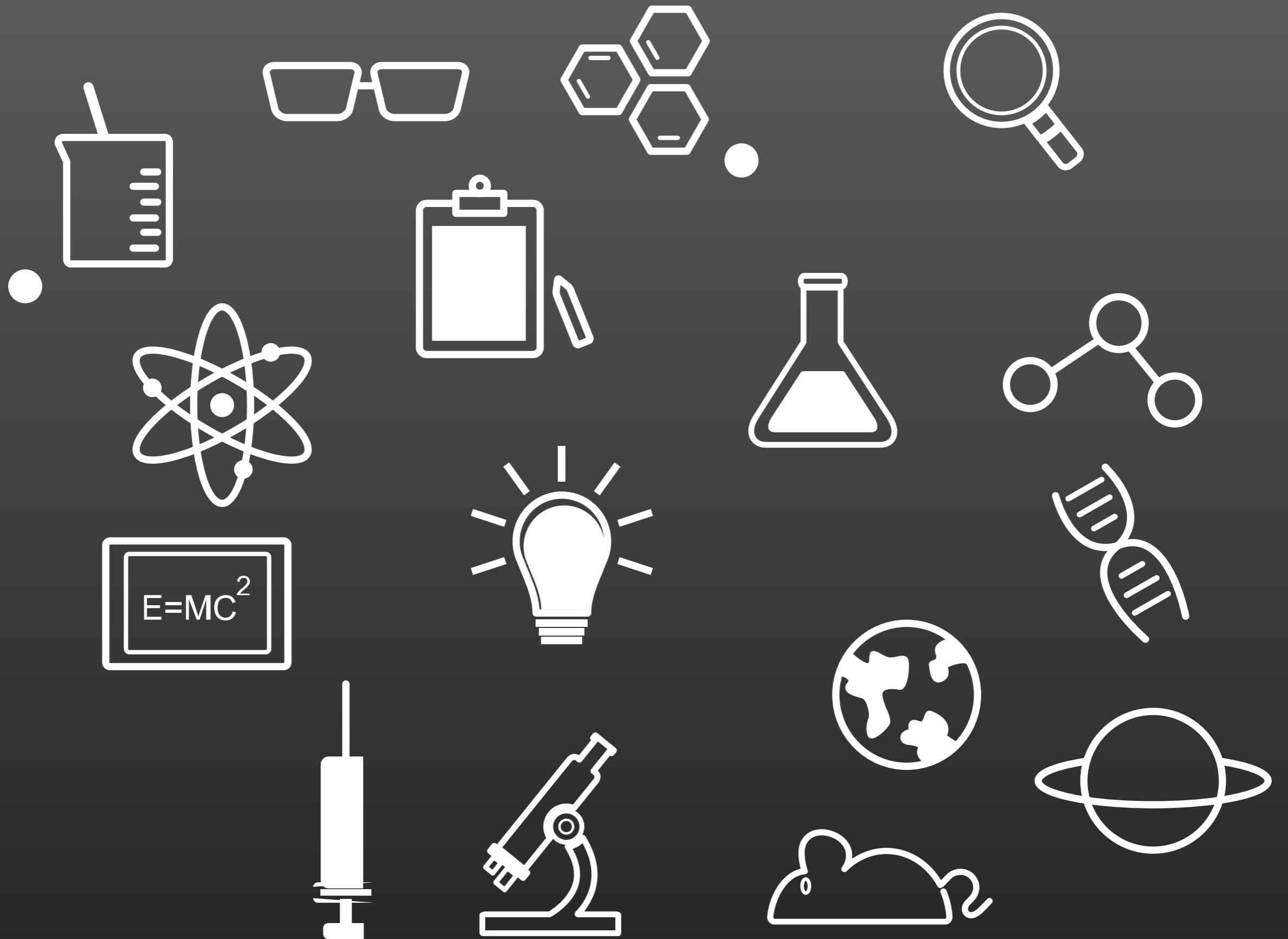
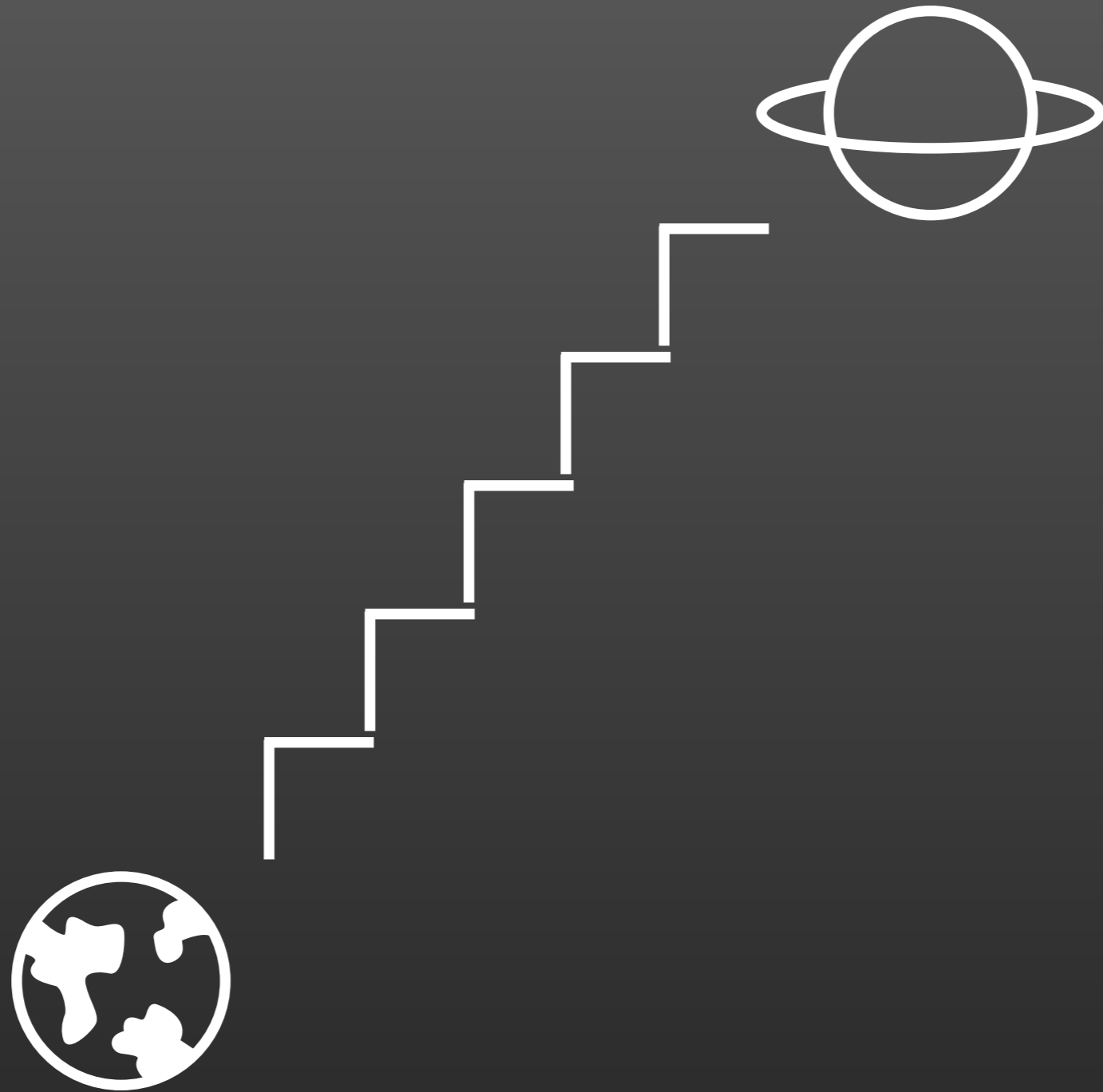


BUILDING A “SELF-DRIVING” TEAM

MAKE IT **POSSIBLE** FOR PEOPLE TO
DO THE BEST **WORK OF THEIR LIVES**

GET YOUR TEAM ON **AUTOPILOT** SO YOU
CAN **WORK ON BIGGER PROBLEMS**







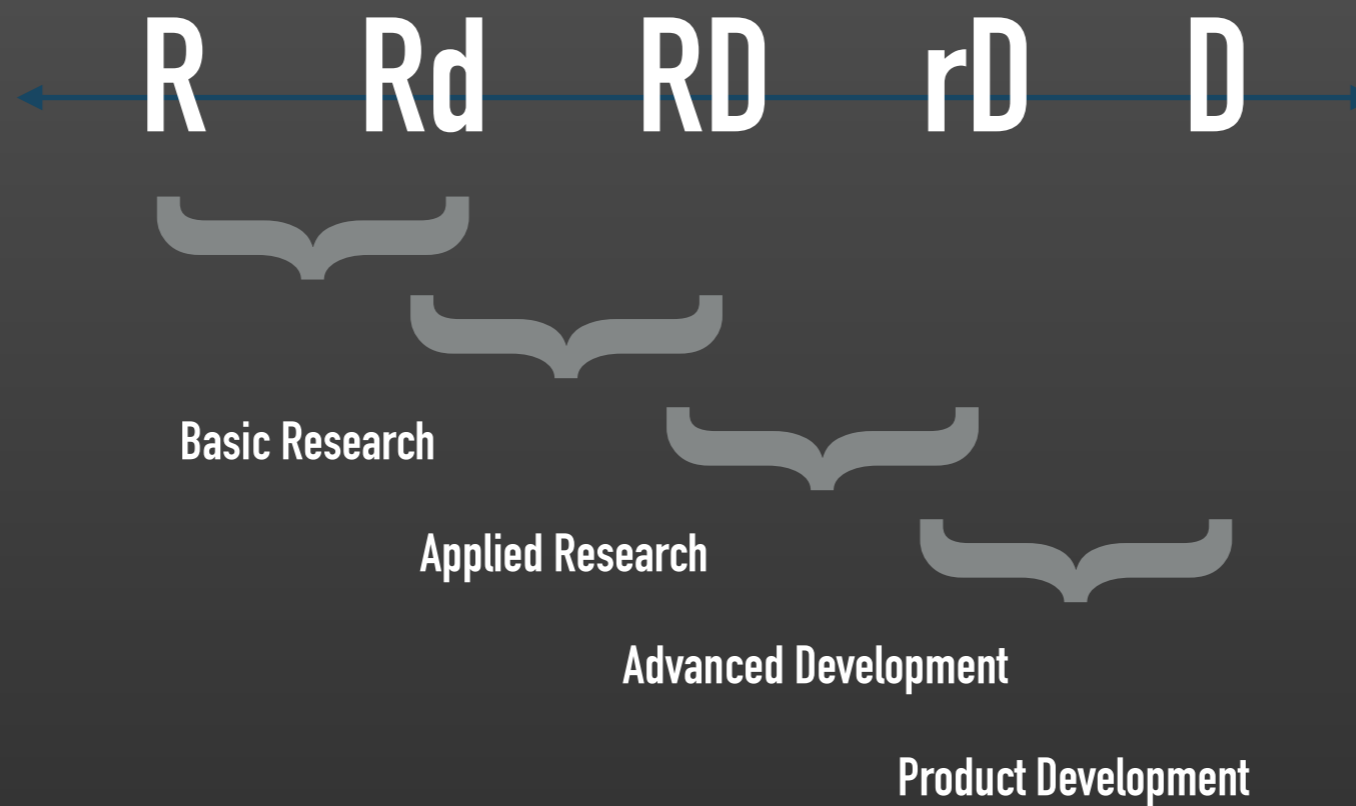
UBER

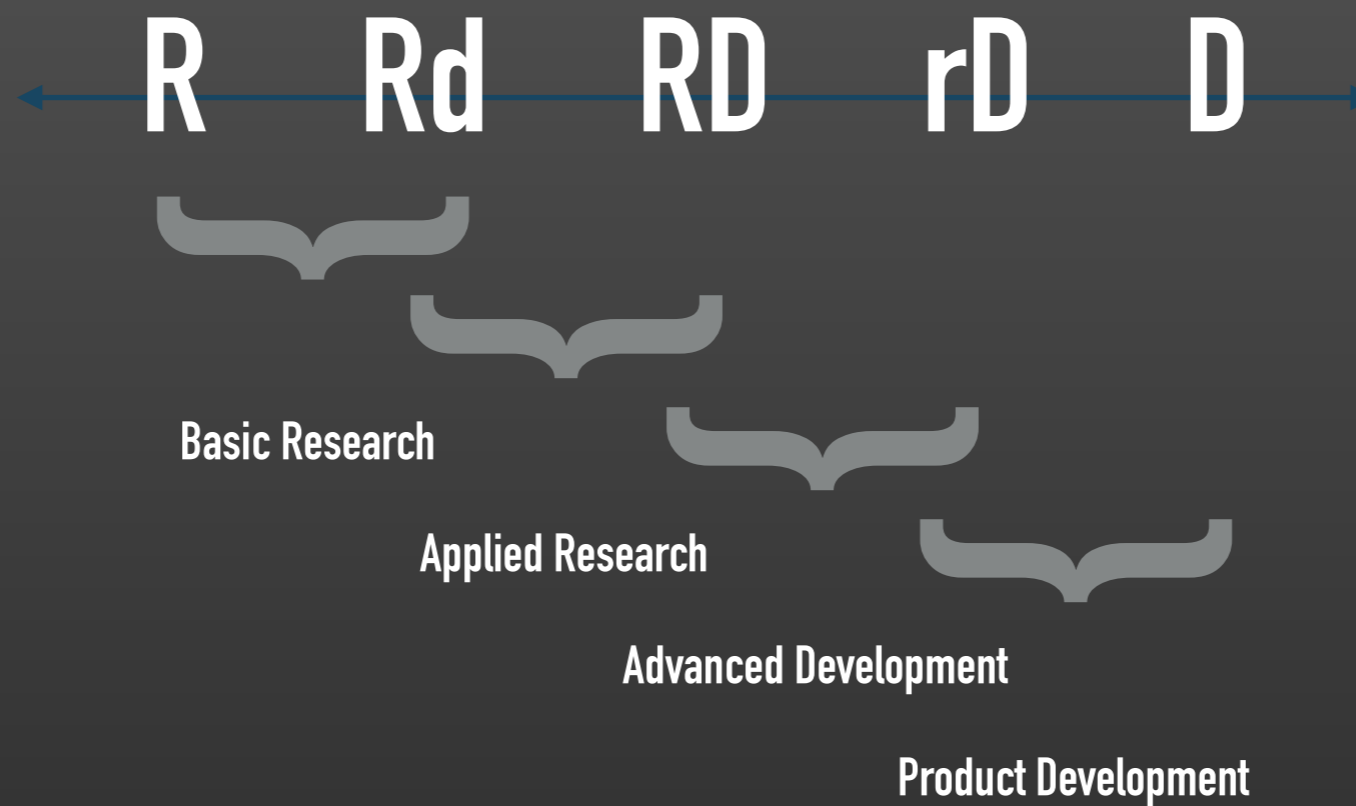
ADVANCED TECHNOLOGIES CENTER

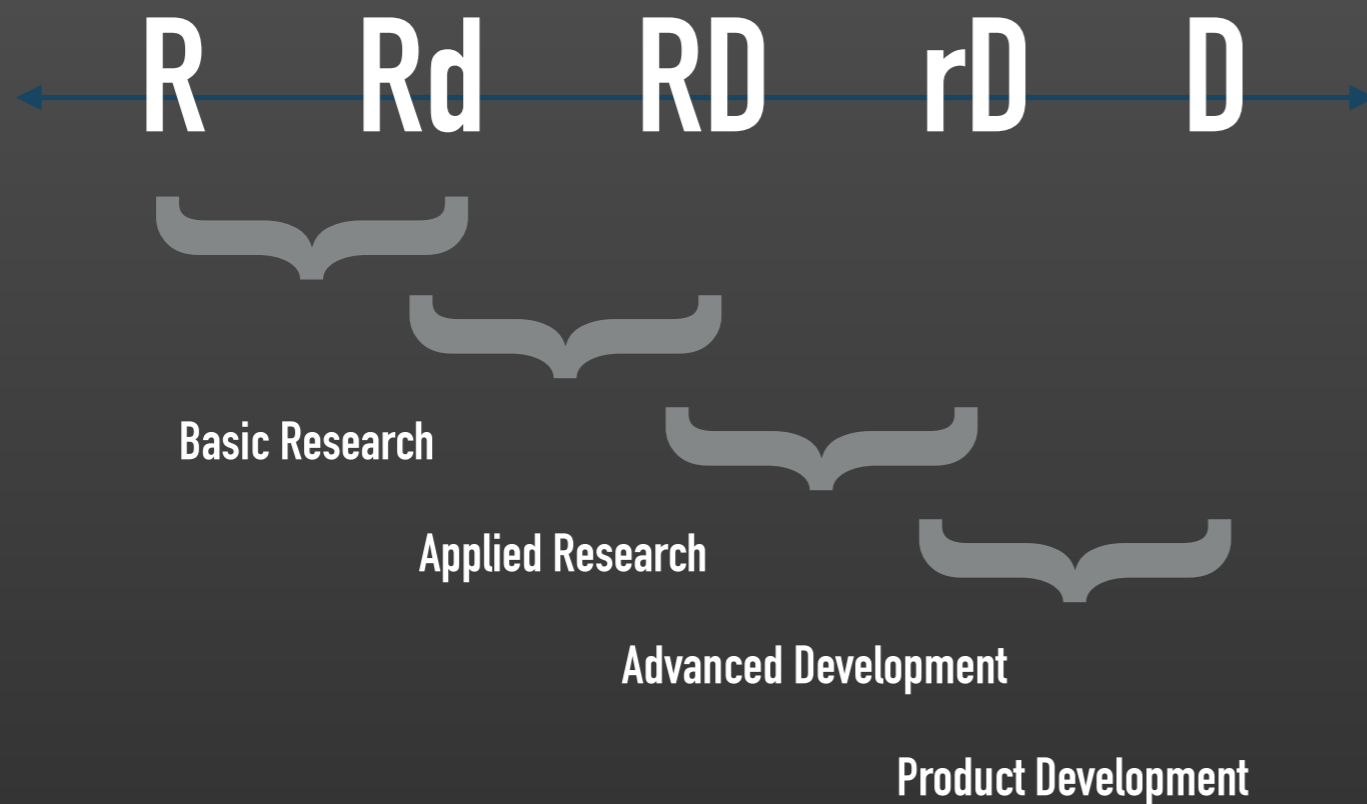
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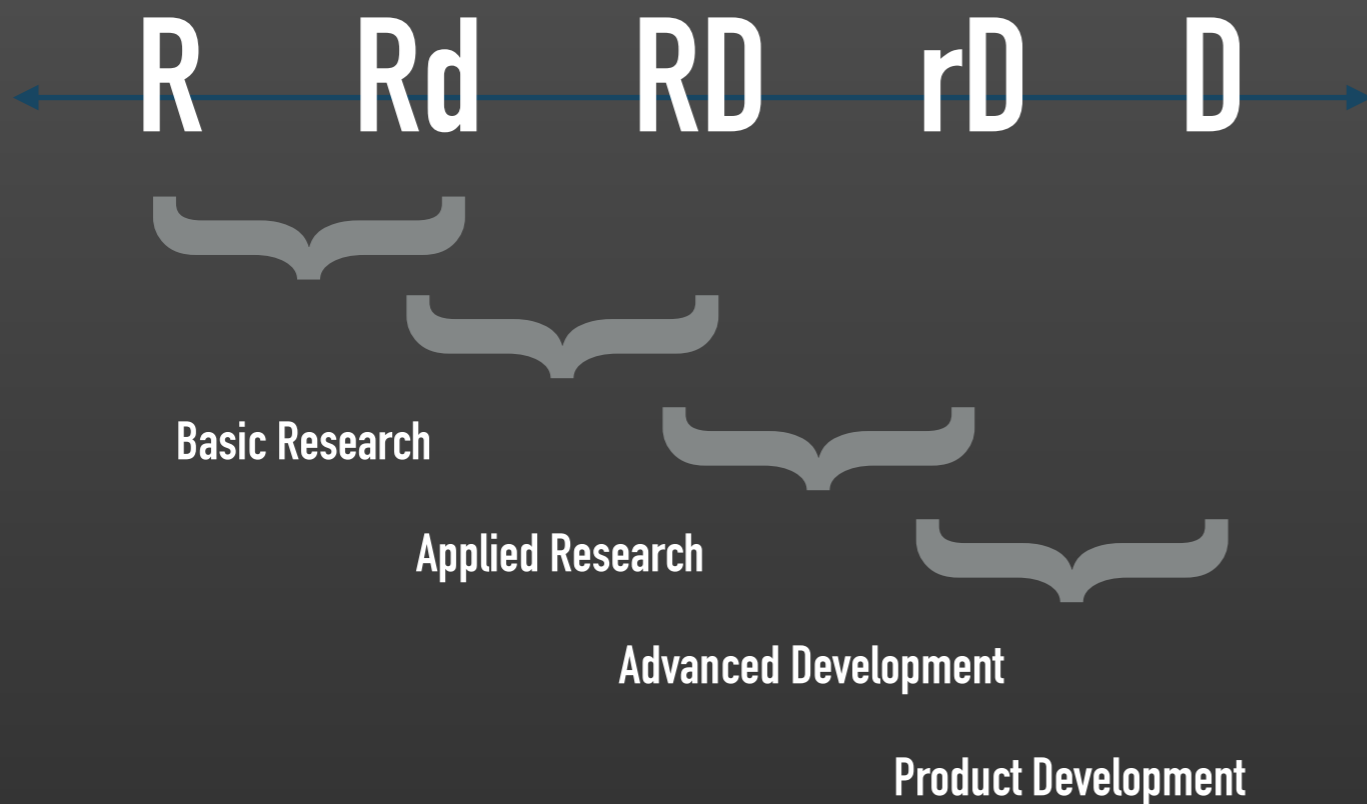






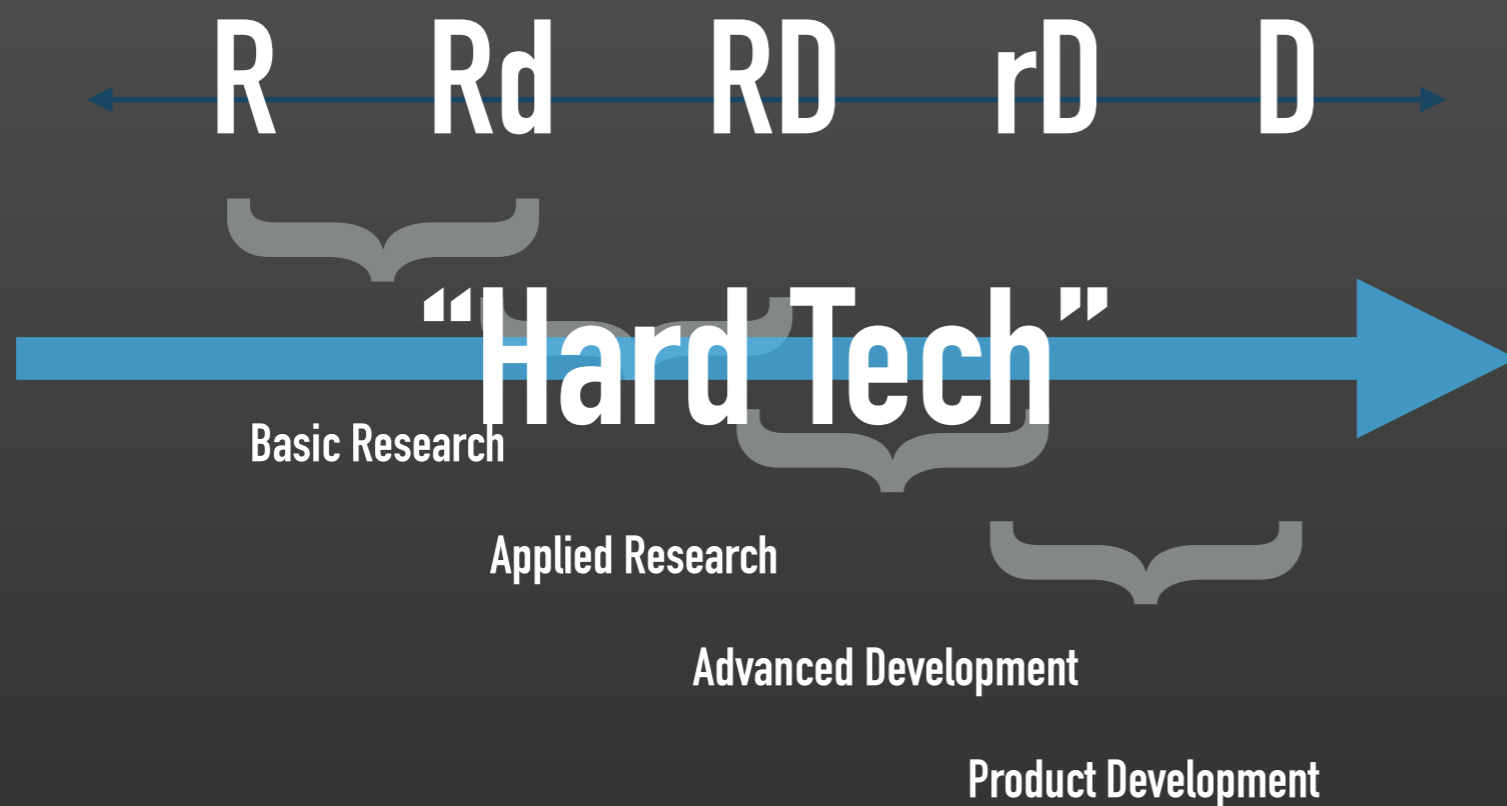


Basic Research – creative work undertaken, on a systematic basis in order to increase the stock of knowledge, and the use of this stock of knowledge to devise new applications.



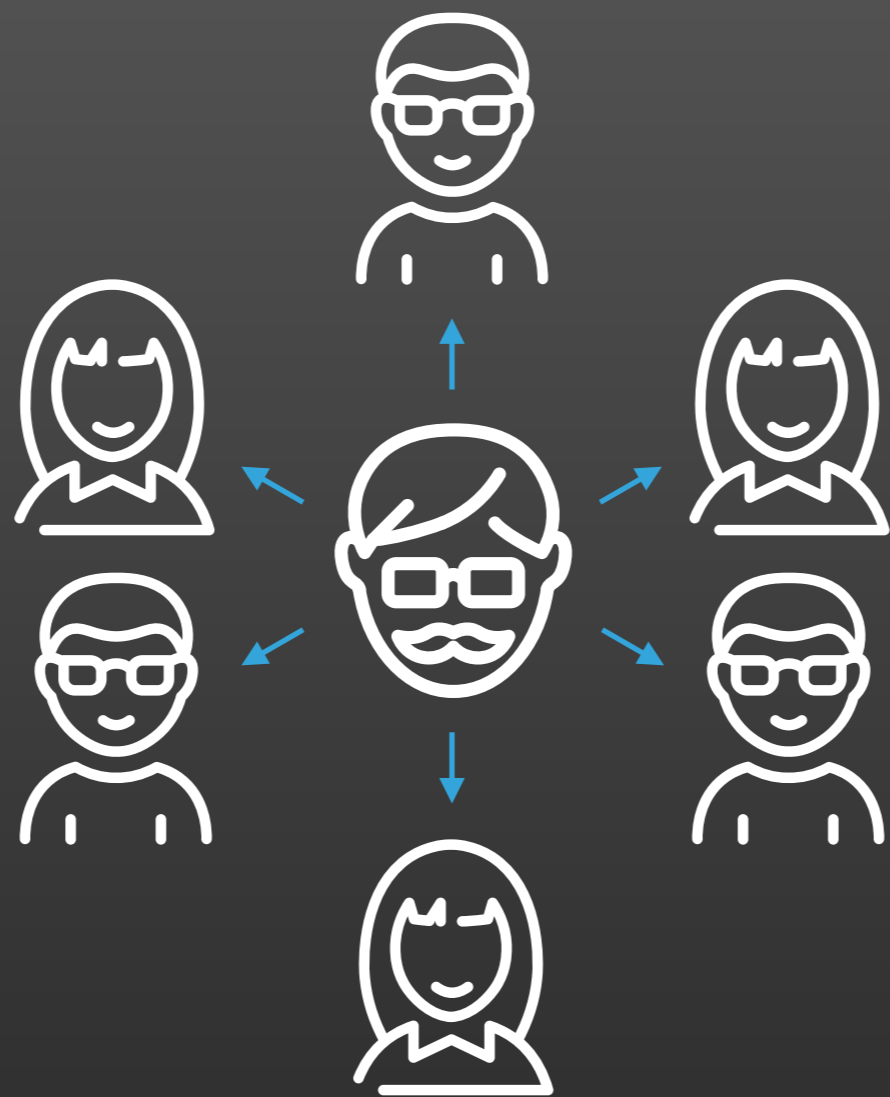
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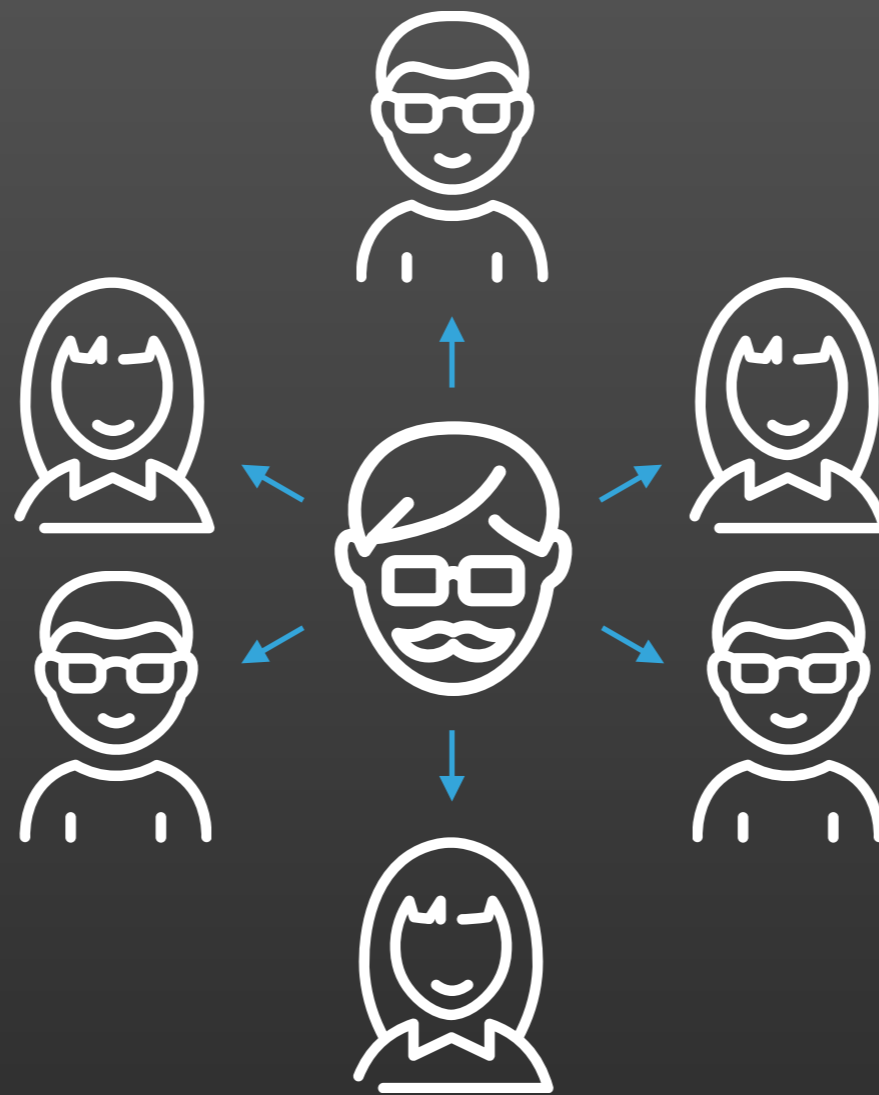
Product Development – increase customer satisfaction, generate more revenue, and maximize profits.

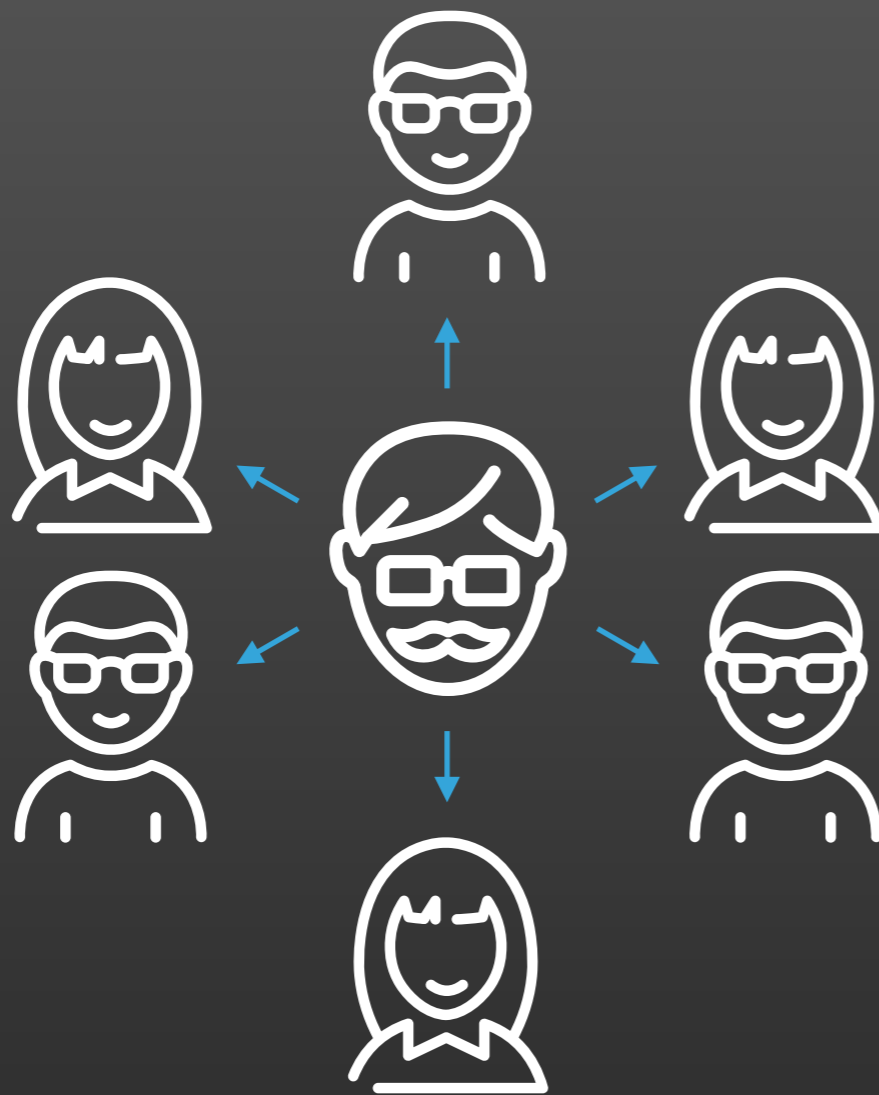


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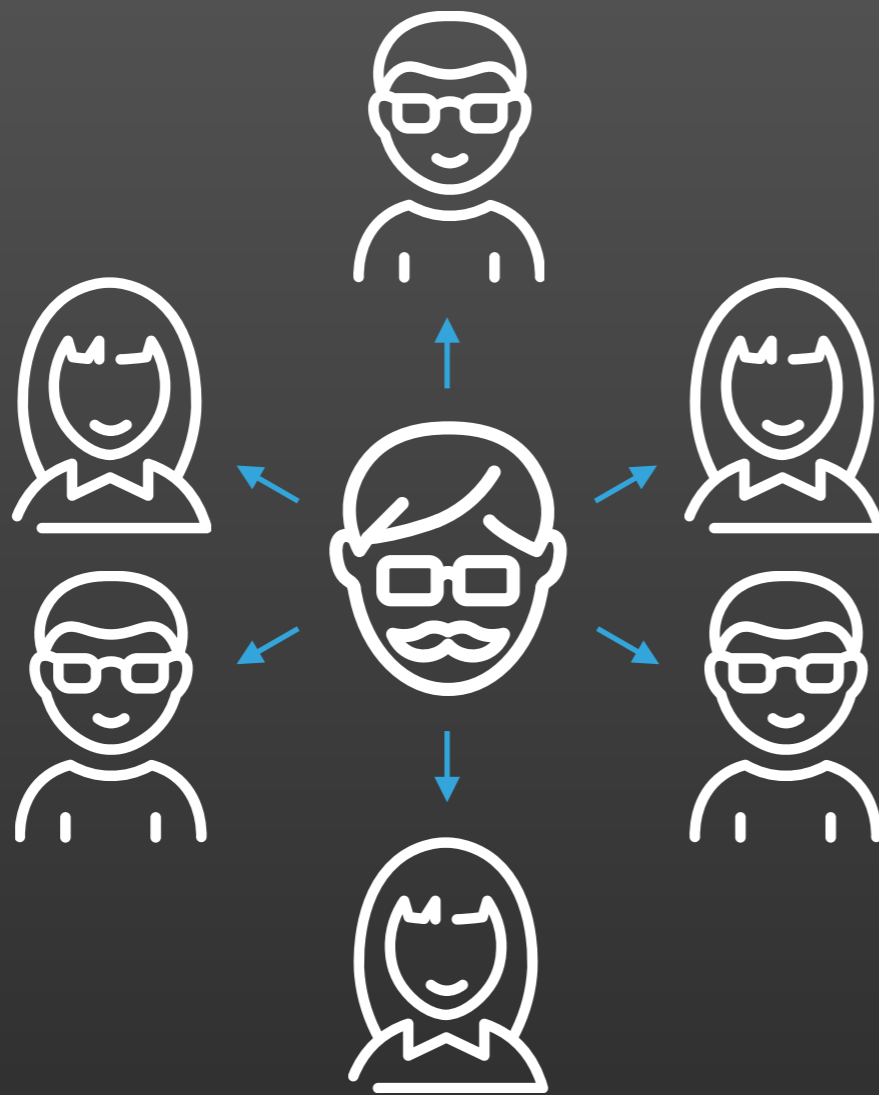




Solo work – usually work on individual projects with a high level of self ownership.

Idea evaluation and development – emphasis on taking an idea and proving it out under a variety of different, and reproducible scenarios.

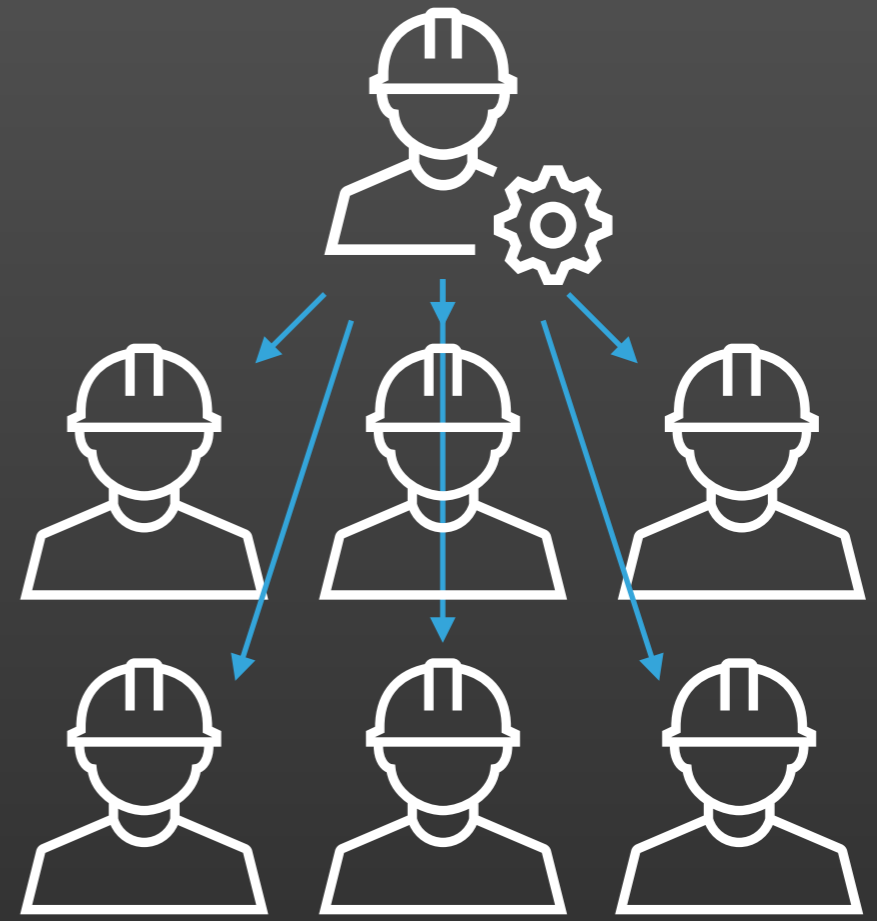
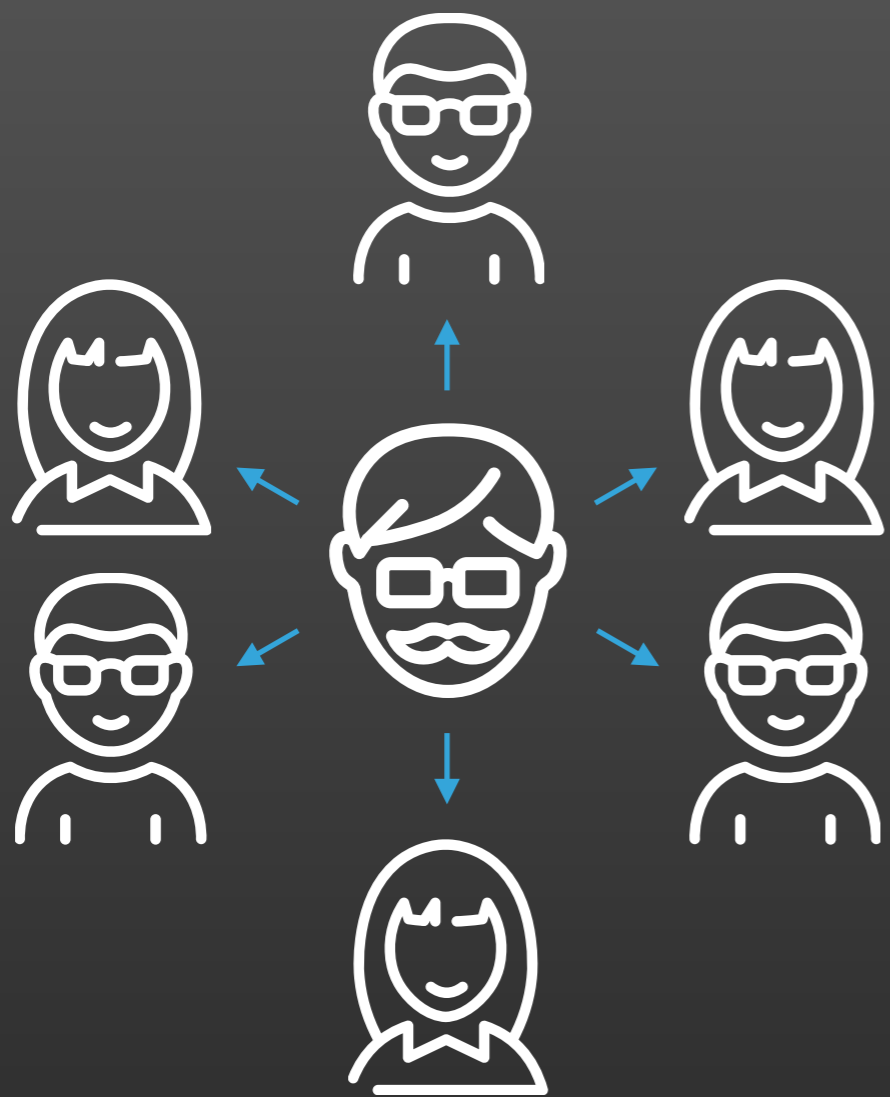
Communicate ideas through written word – instead of publishing and deploying software, ideas are spread through papers.



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Full stack?



Perception – sense the driving environment, including the free drivable areas and surrounding obstacles' locations, velocities.



Prediction – provide estimates for the future states of the driving environment.

Planning – manage both high level objectives as well as ad hoc interactions.

Control – physically execute commands on the robot.





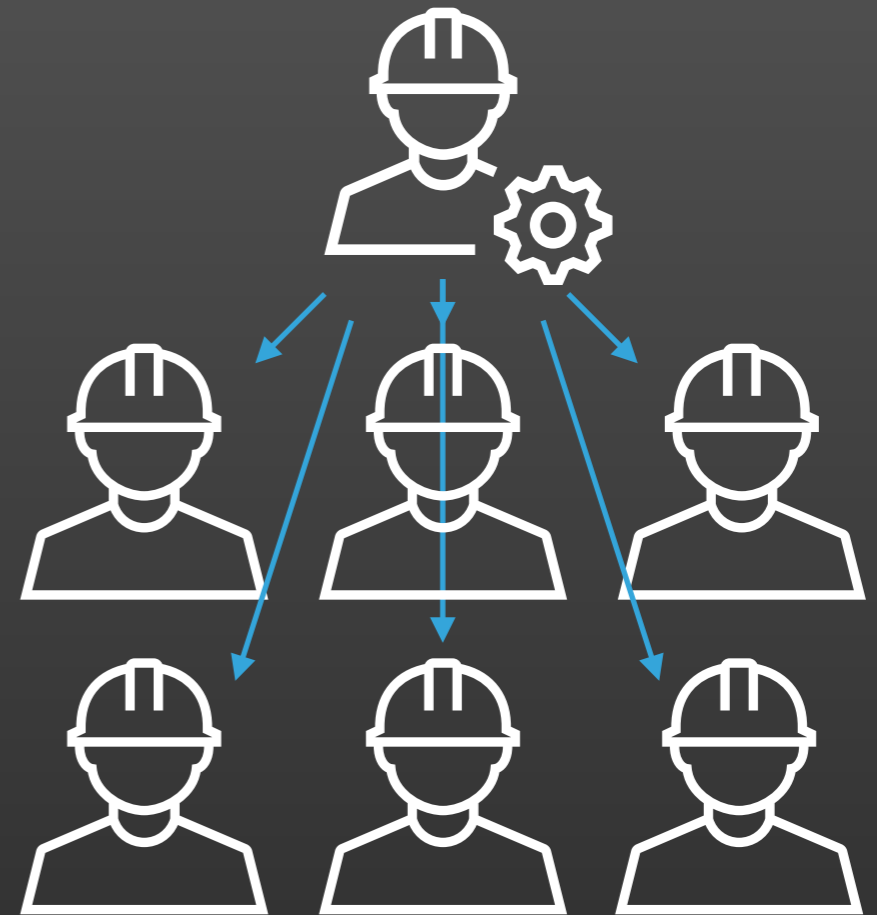
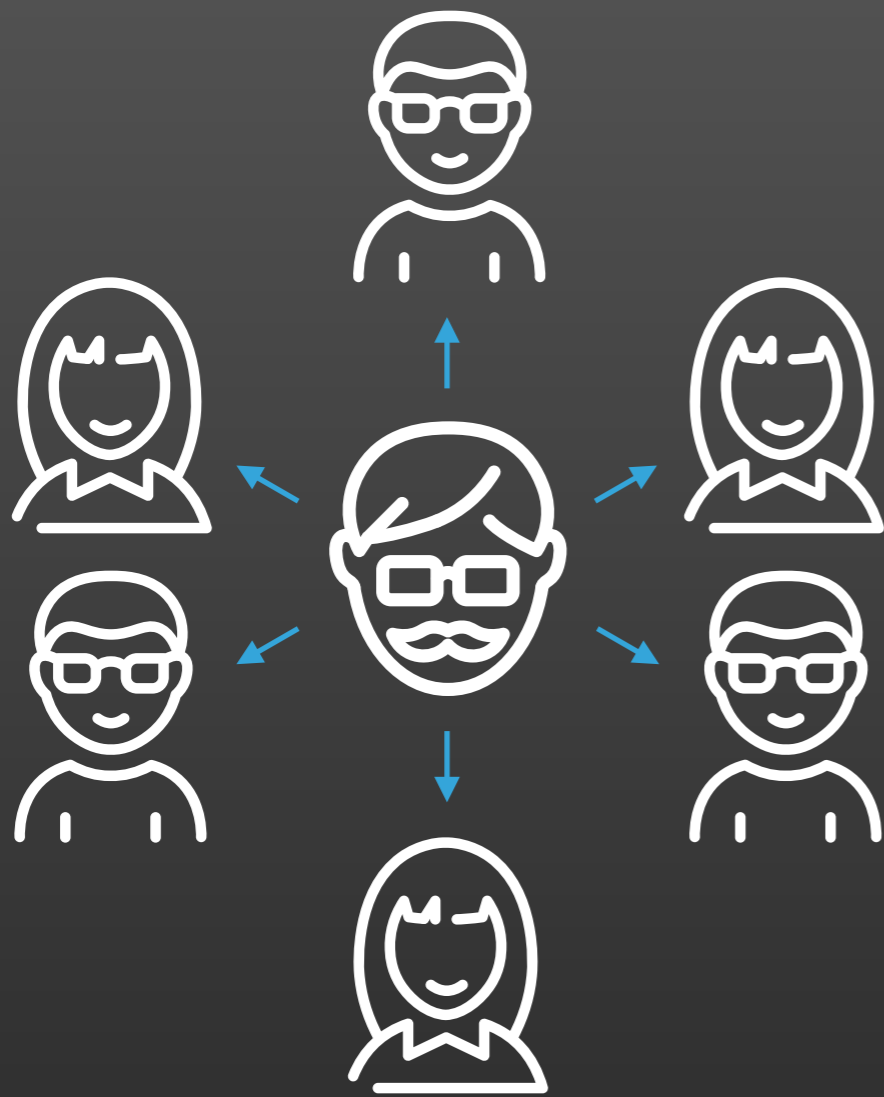
Perception → Prediction → Planning → Controls

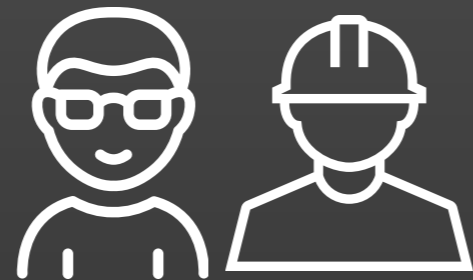
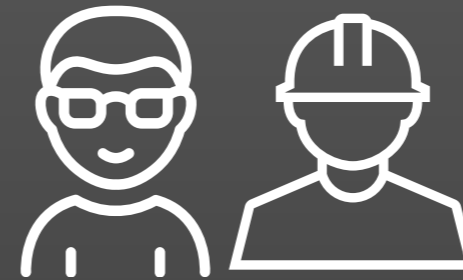


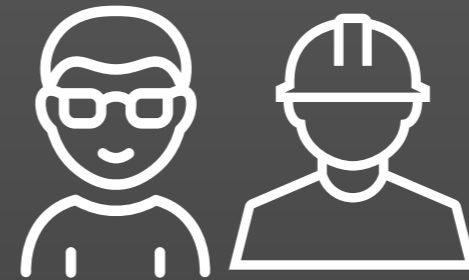
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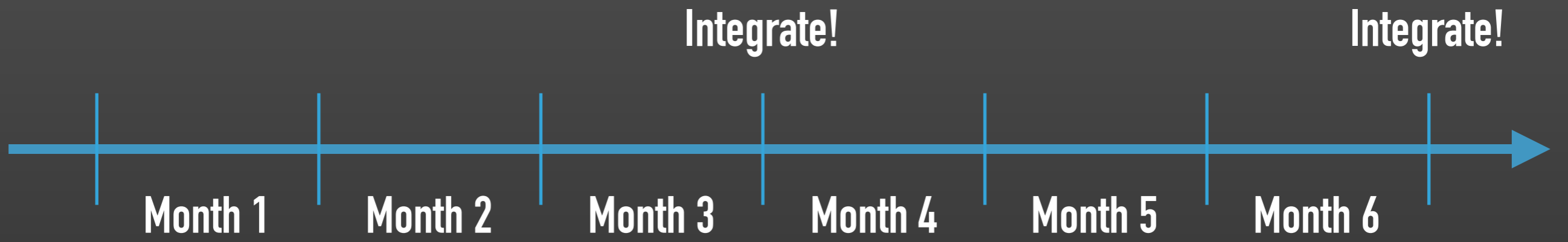
Traffic Lights













Full stack teams work! – make teams autonomous. Don't throw things over the fence and instead create teams with all functions in one place.

Find the right ratio – use engineers to multiply the output of the researchers.

Plan growth for everybody– researchers may want to master being the technical product manager and engineers want to master the sexy tech.

Get into a development cadence – remind everybody the purpose of being part of the team, and deploy early and often!