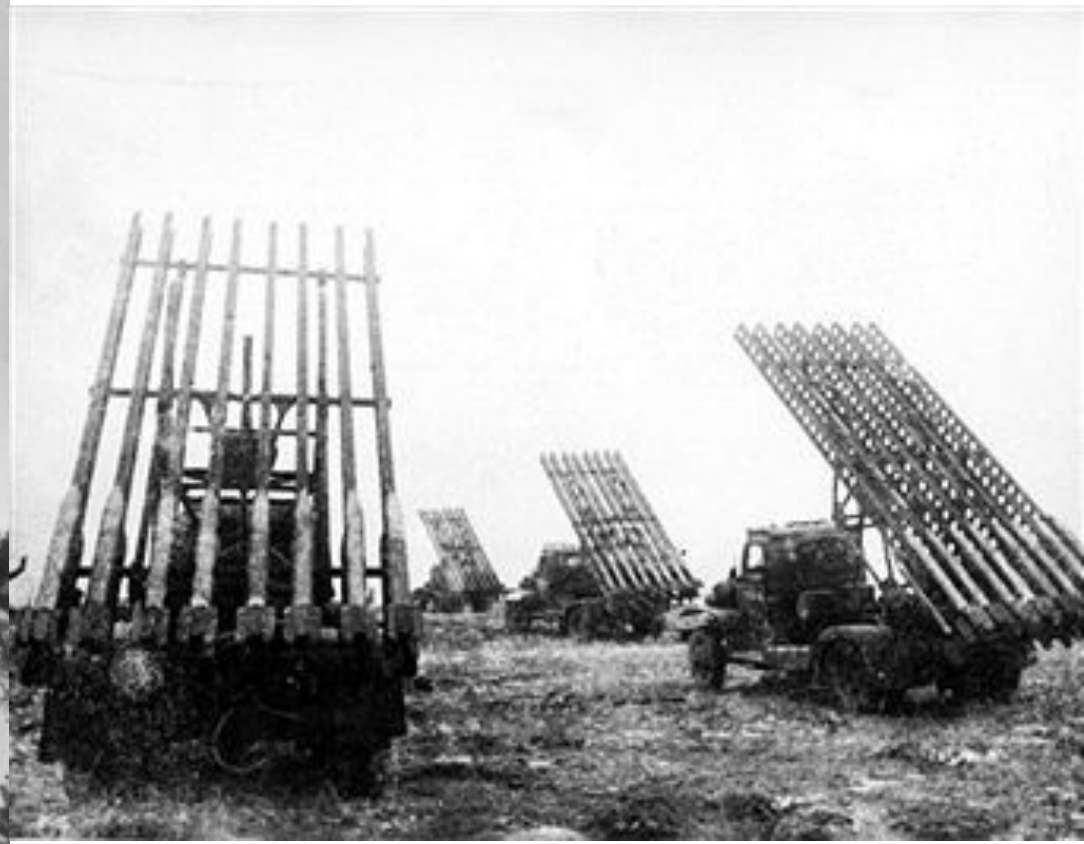
# From the Earth to the Moon: Lessons from the space race to apply in Machine Learning projects

Slido: BDC2020T2D2

Diego Hueltes
@diegohueltes



The New York Times.

CITY EDITION

NEW YORK, SATURDAY, JULY 20, 1957.

FIVE CENTS

# U.S. TO LAUNCH EARTH SATELLITE 200-300 MILES INTO OUTER SPACE; WORLD WILL GET SCIENTIFIC DATA

## NO MILITARY ROLE

Device Cannot Yield Terrestrial Facts or Drop a Weapon

By ANTHONY LEVIERO

## PACE 18,000 M.P.H.

Rocket to Start Object Size of a Basketball in 1957 or 1958

By RUSSELL BAKER

MAN-MADE SATELLITE: Artist's renditions of the earth-circling satellite, based on a concept of Prof. S. F. Singer of the University of Maryland. Professor Singer's specifications—diameter of about two feet, weight 160 pounds and speed 17,250 miles an hour—conform closely with those of White House announcement. Sphere would be of aluminum.

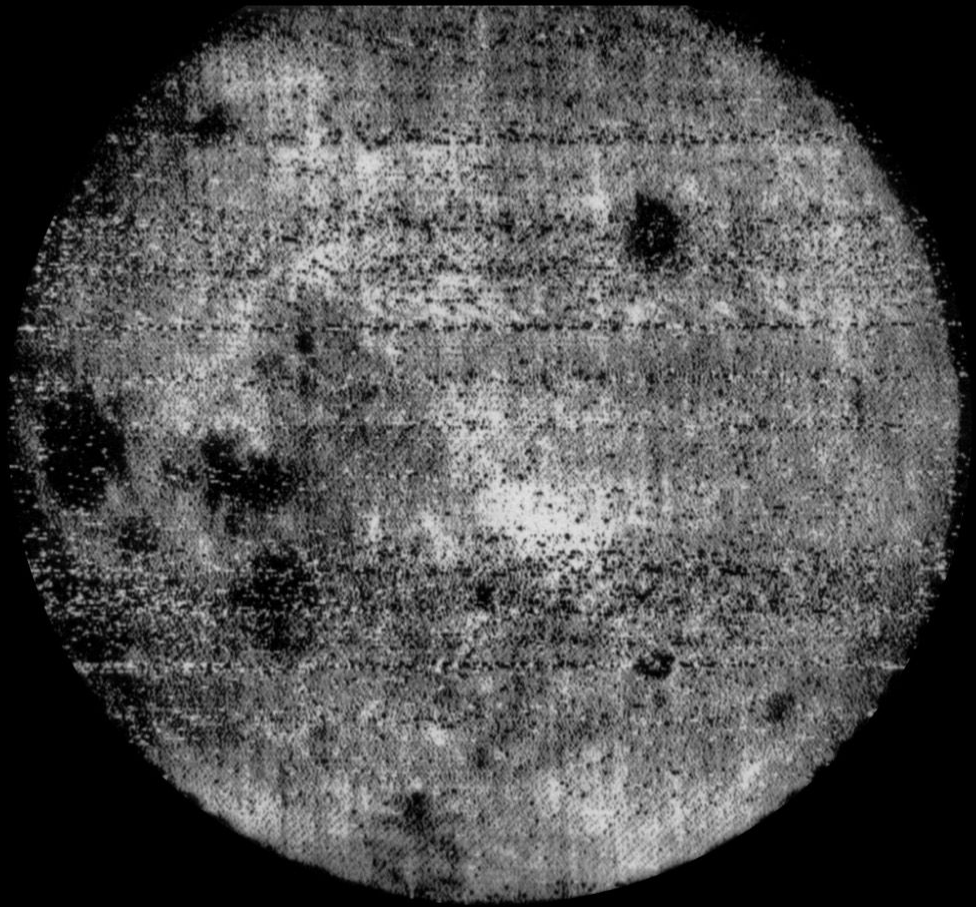
## R.A.F. IS RETURNING 400 U.S. SABRE JETS

## Russians Already Striving To Set Up Space Satellite

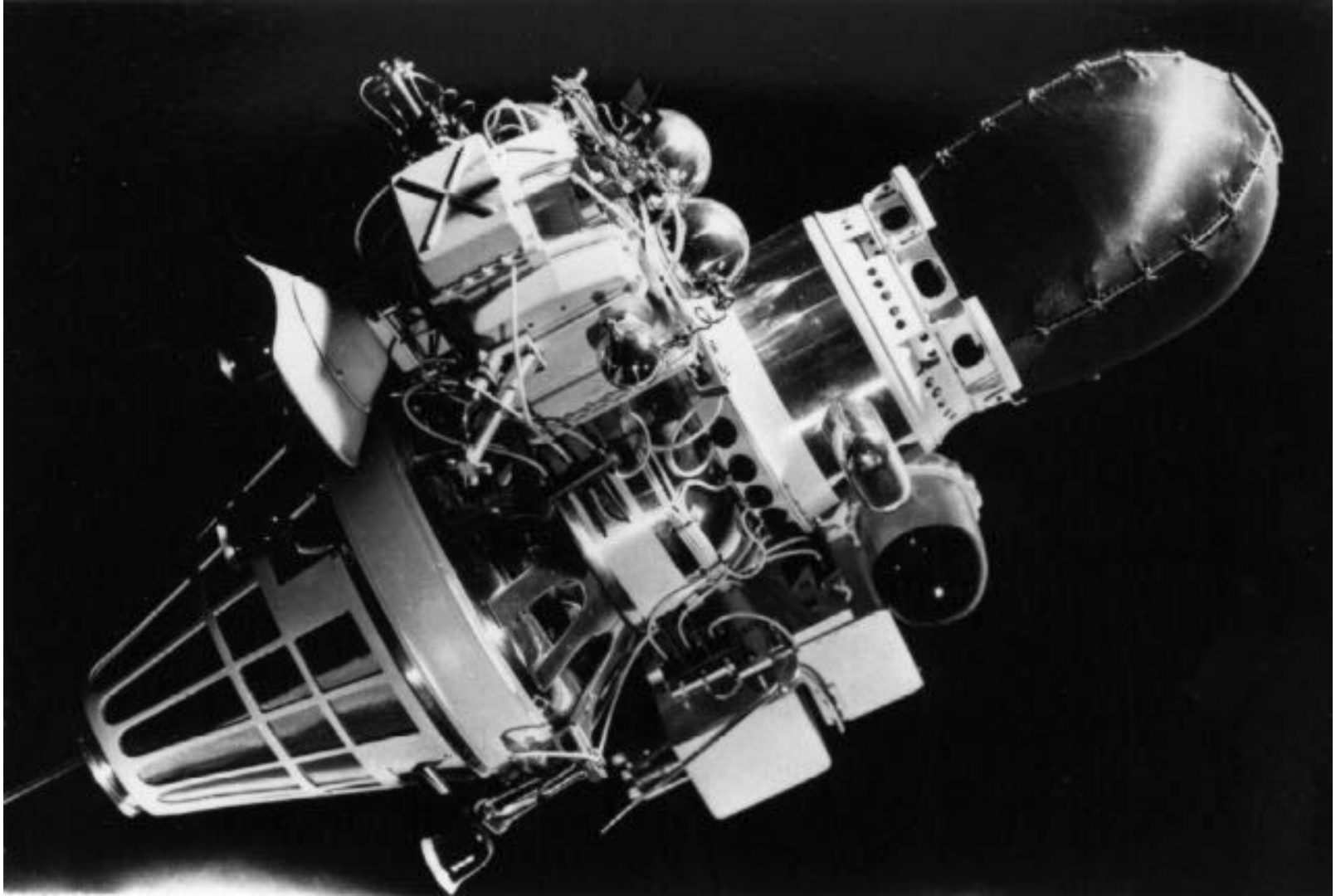
ANNÉE GÉOPHYSIQUE INTERNATIONALE

1957 1958

INTERNATIONAL GEOPHYSICAL YEAR

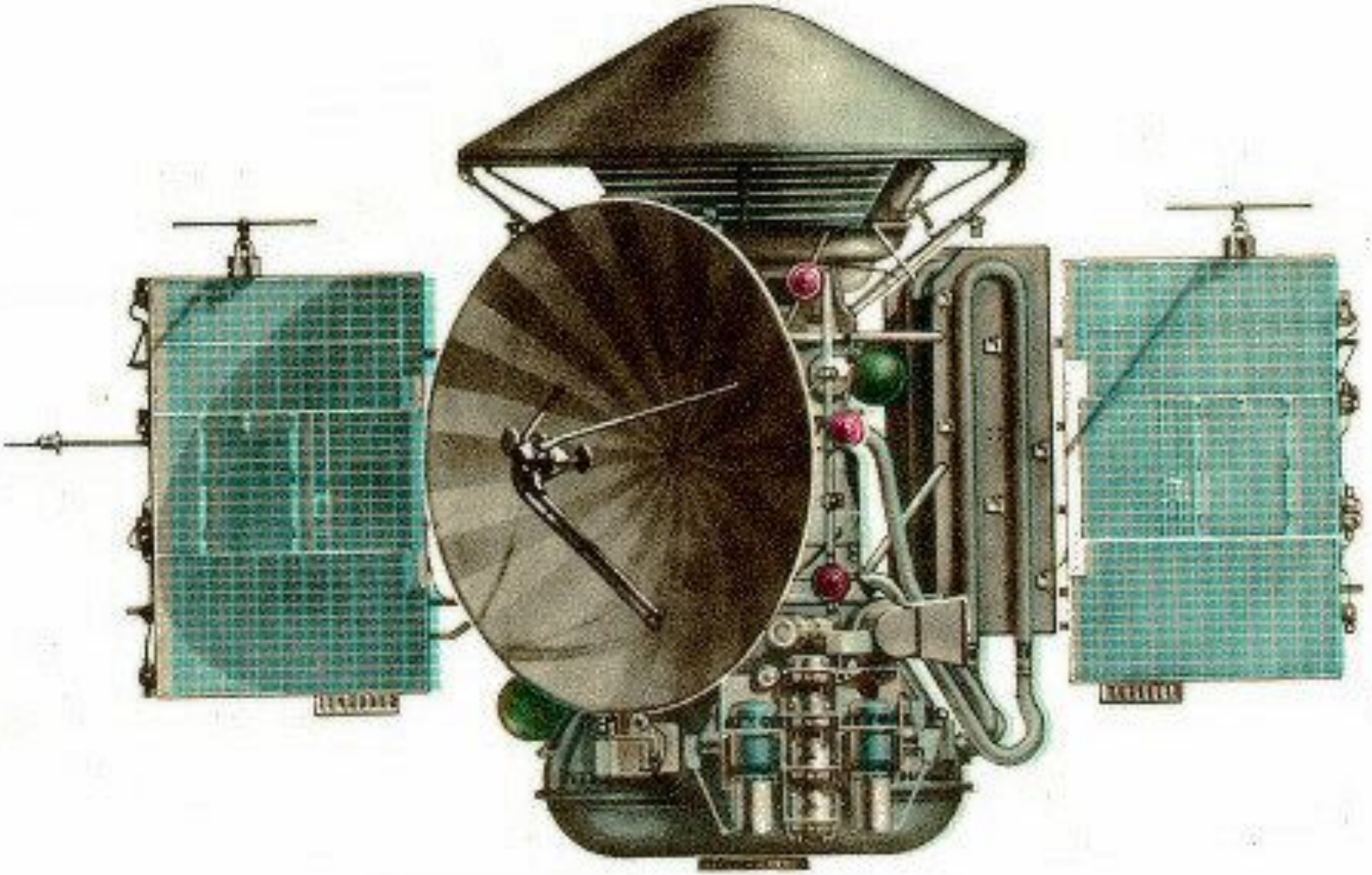



СССР

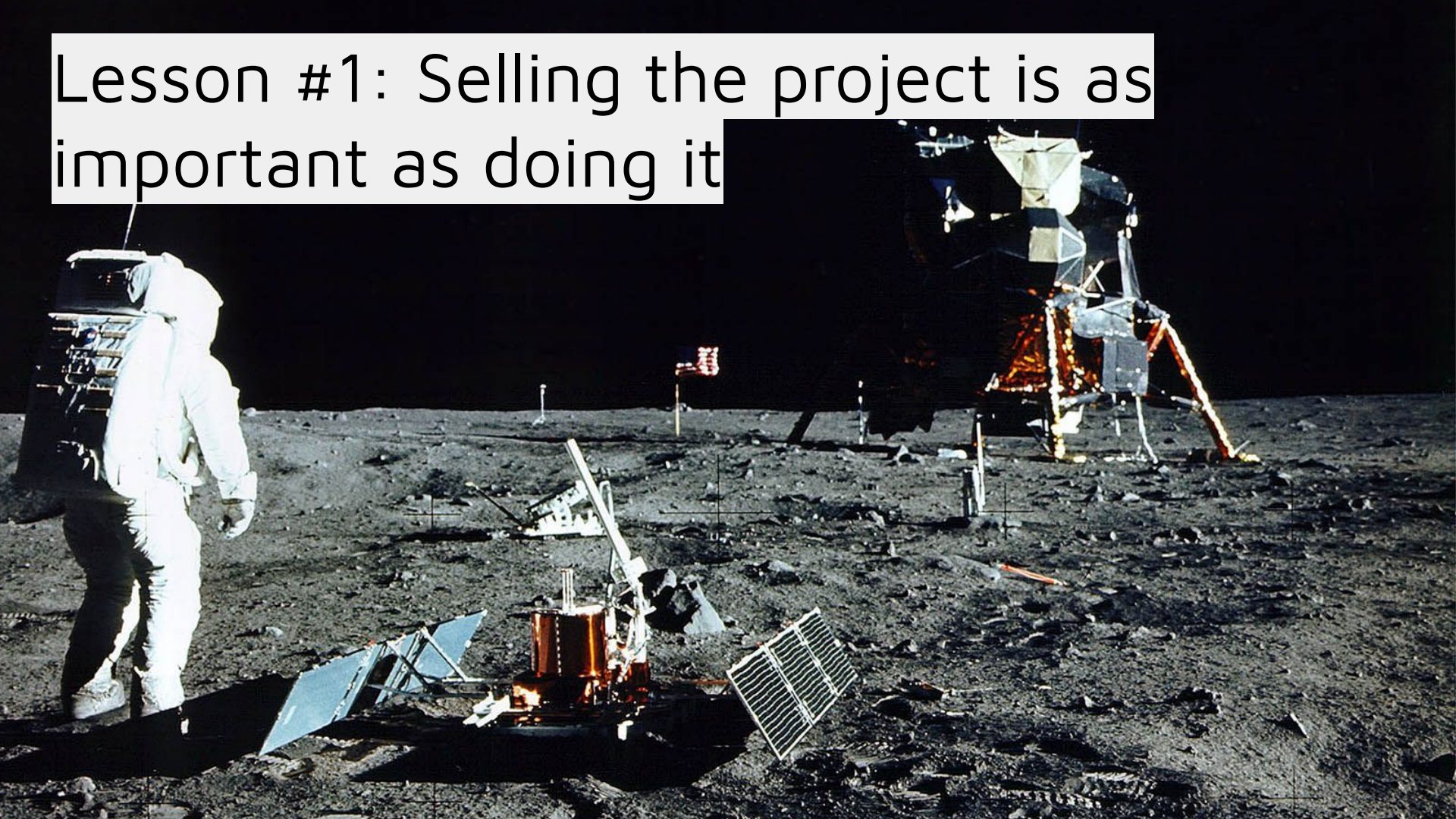



NASA
ARMSTRONG


ЗАРЯ
СССР



# Lesson #1: Selling the project is as important as doing it



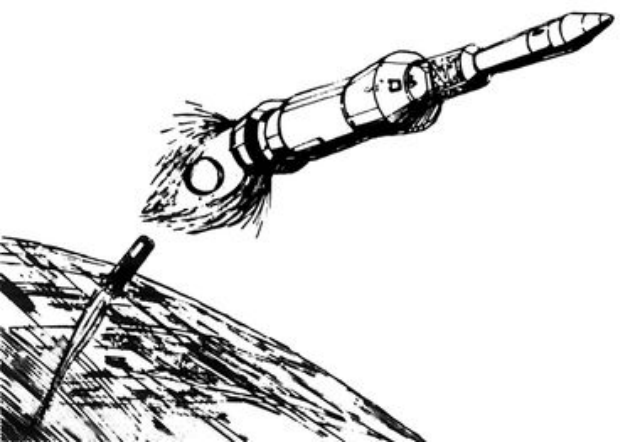

The
Kennedy
Center

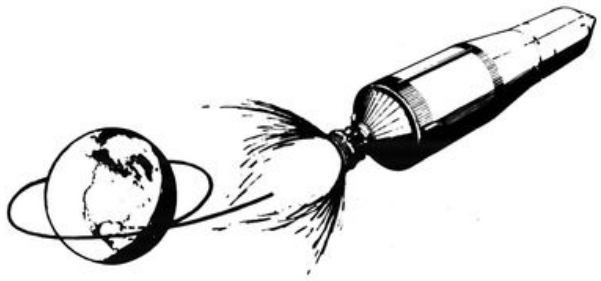
Lesson #2: Stakeholders use to underestimate the tasks. Communicate expectations accordingly.

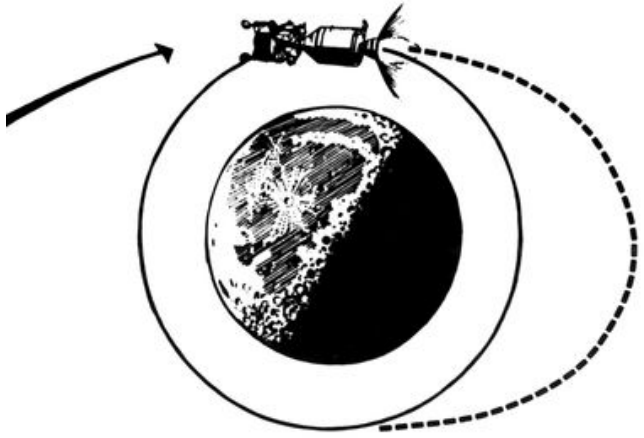
Lesson #3: Long term vision and deadlines helps to get things done.

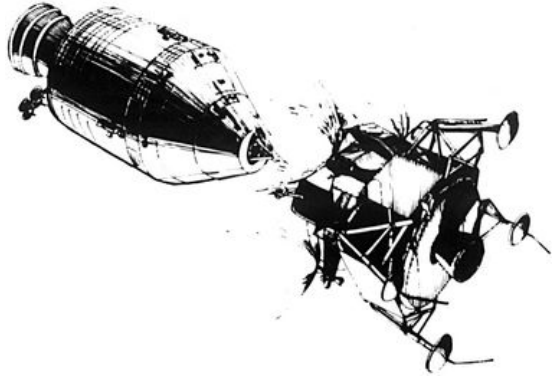
Lesson #4: Don’t be afraid of a challenge.

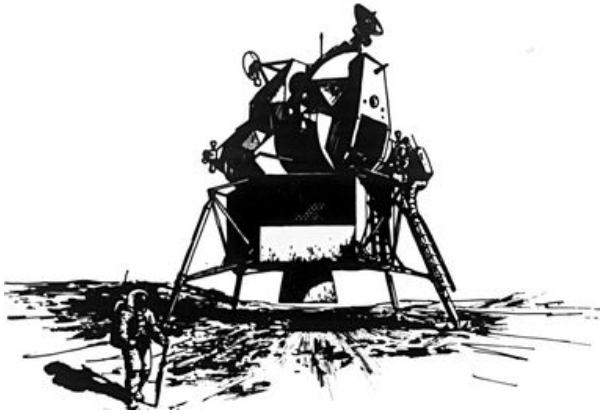
Accept the risks and be aware of them.

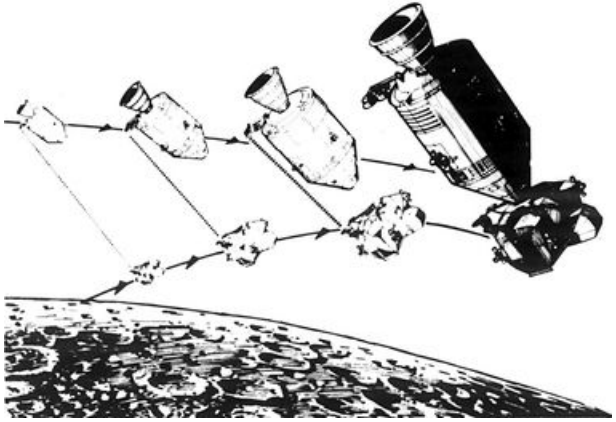


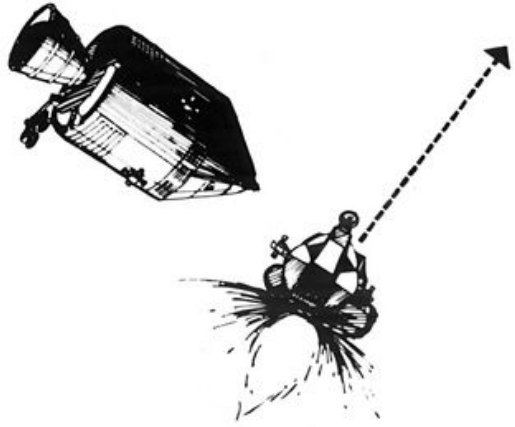


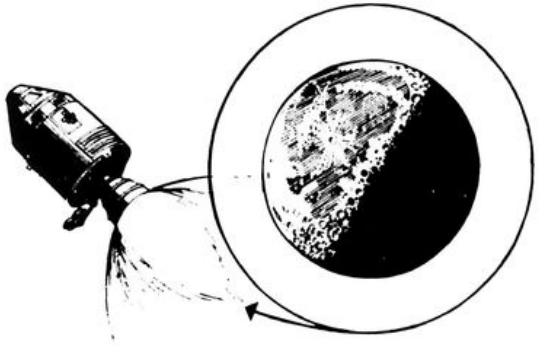


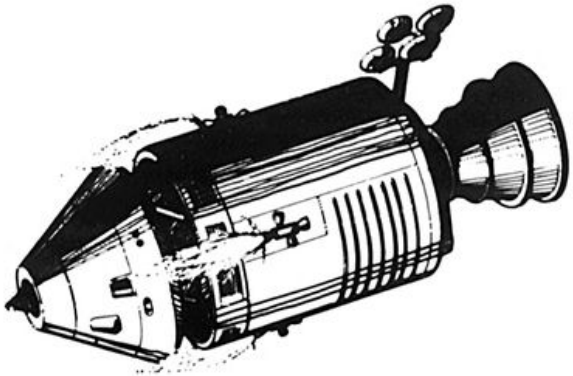


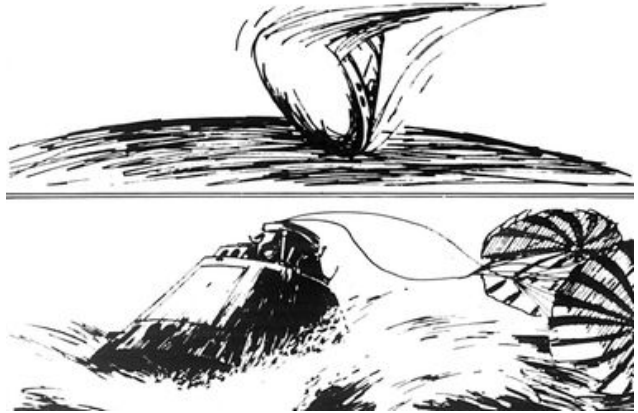


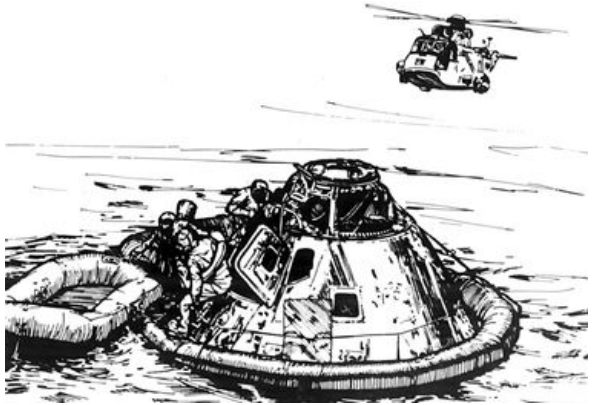


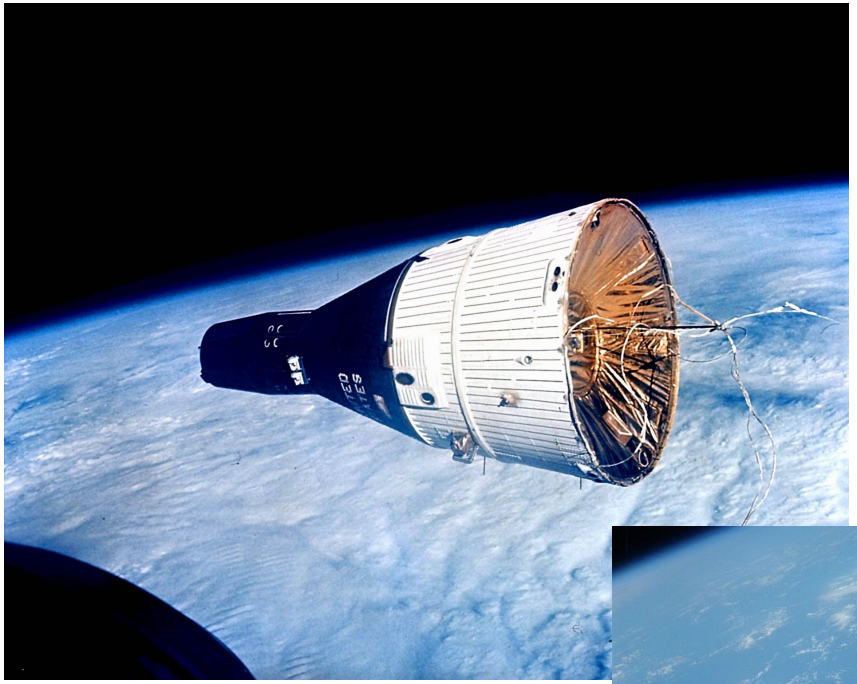








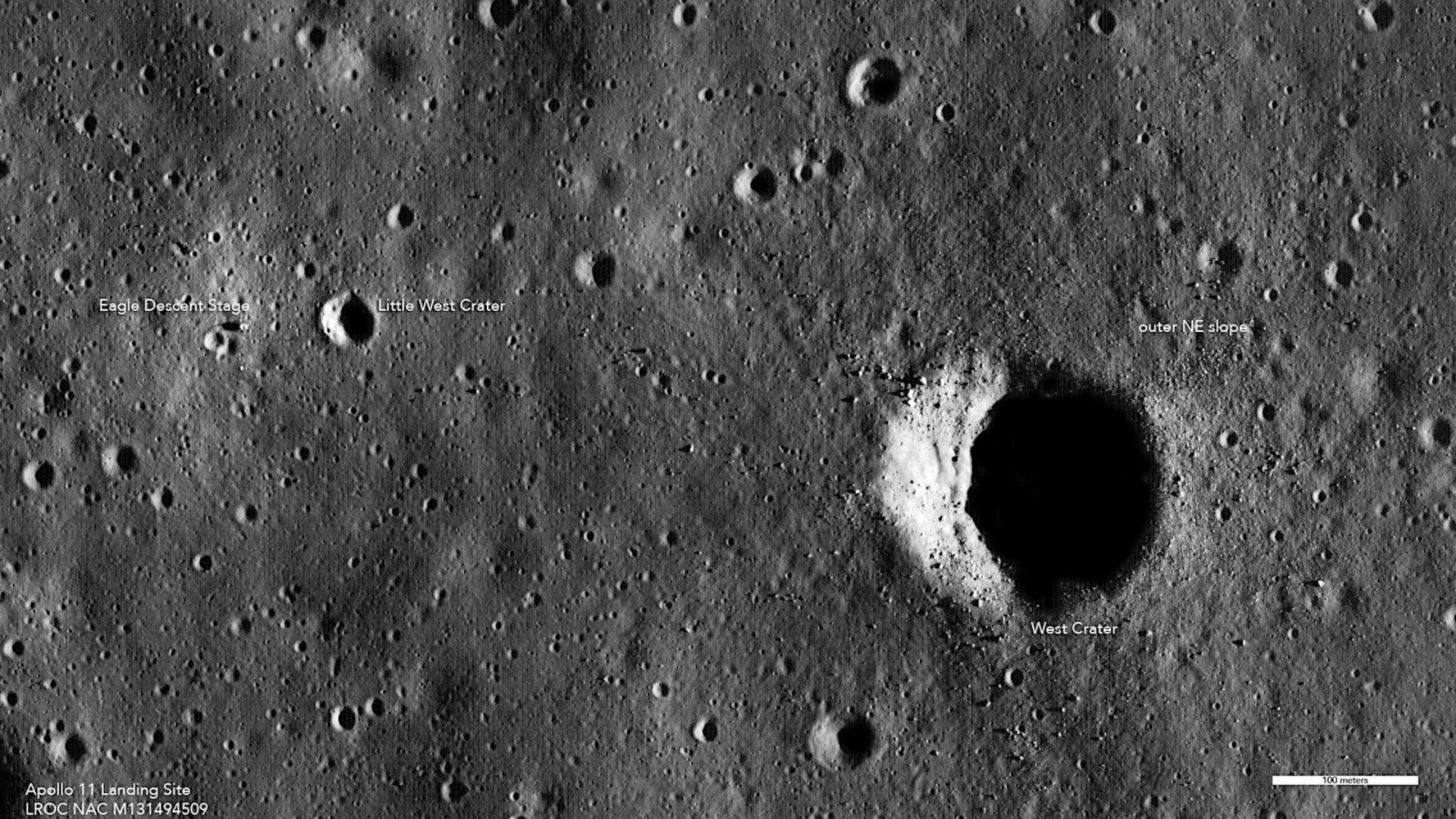





USA
USA

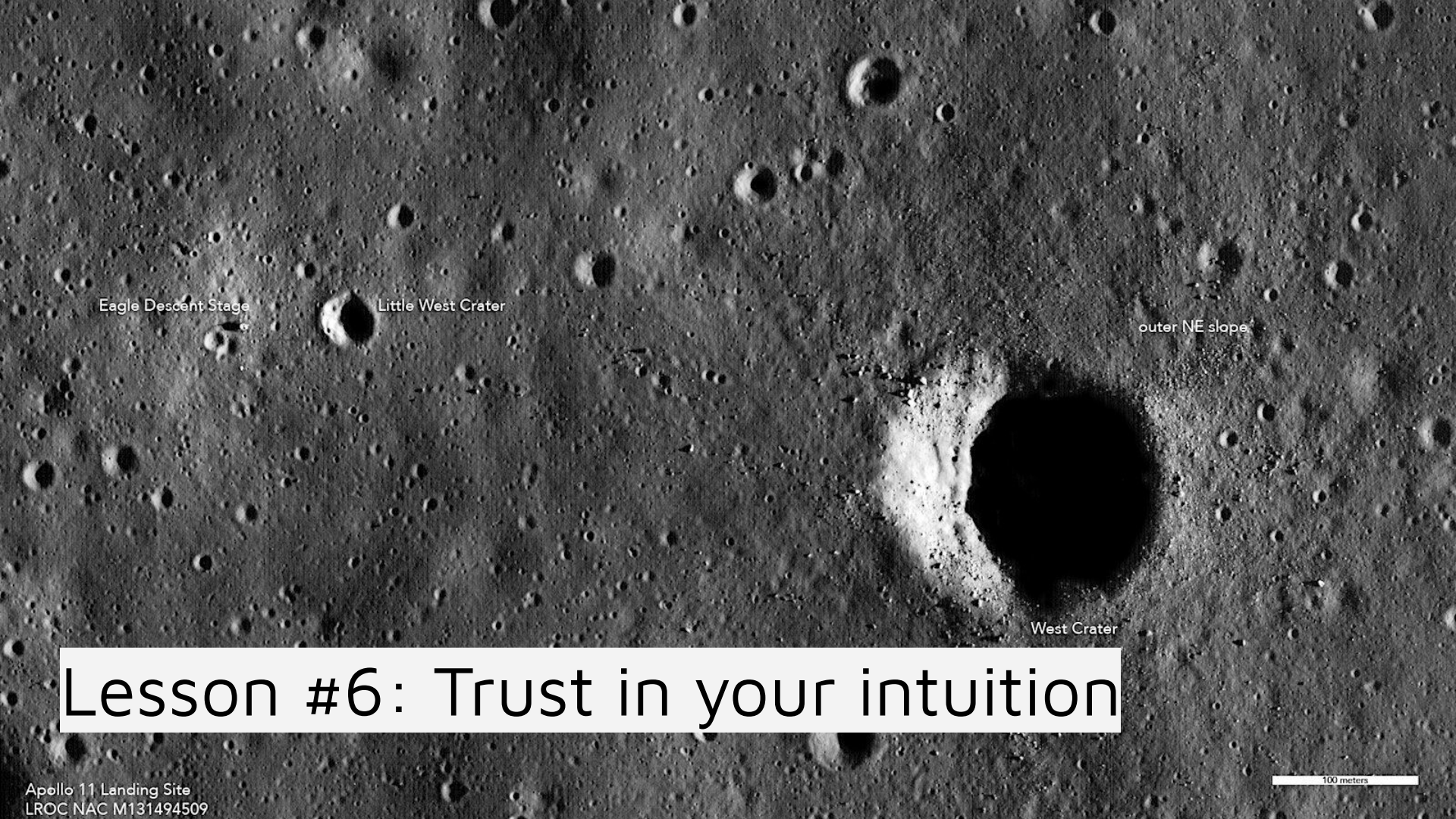

UNITED STATES

# Lesson #7: Divide the project in independent milestones. Planning


Eagle Descent Stage
Little West Crater
outer NE slope
West Crater
100 meters
Apollo 11 Landing Site
LROC NAC M131494509


# Lesson #5: Don’t be afraid to change the plan

Apollo 11 Landing Site
LROC NAC M131494509




# Lesson #6: Trust in your intuition

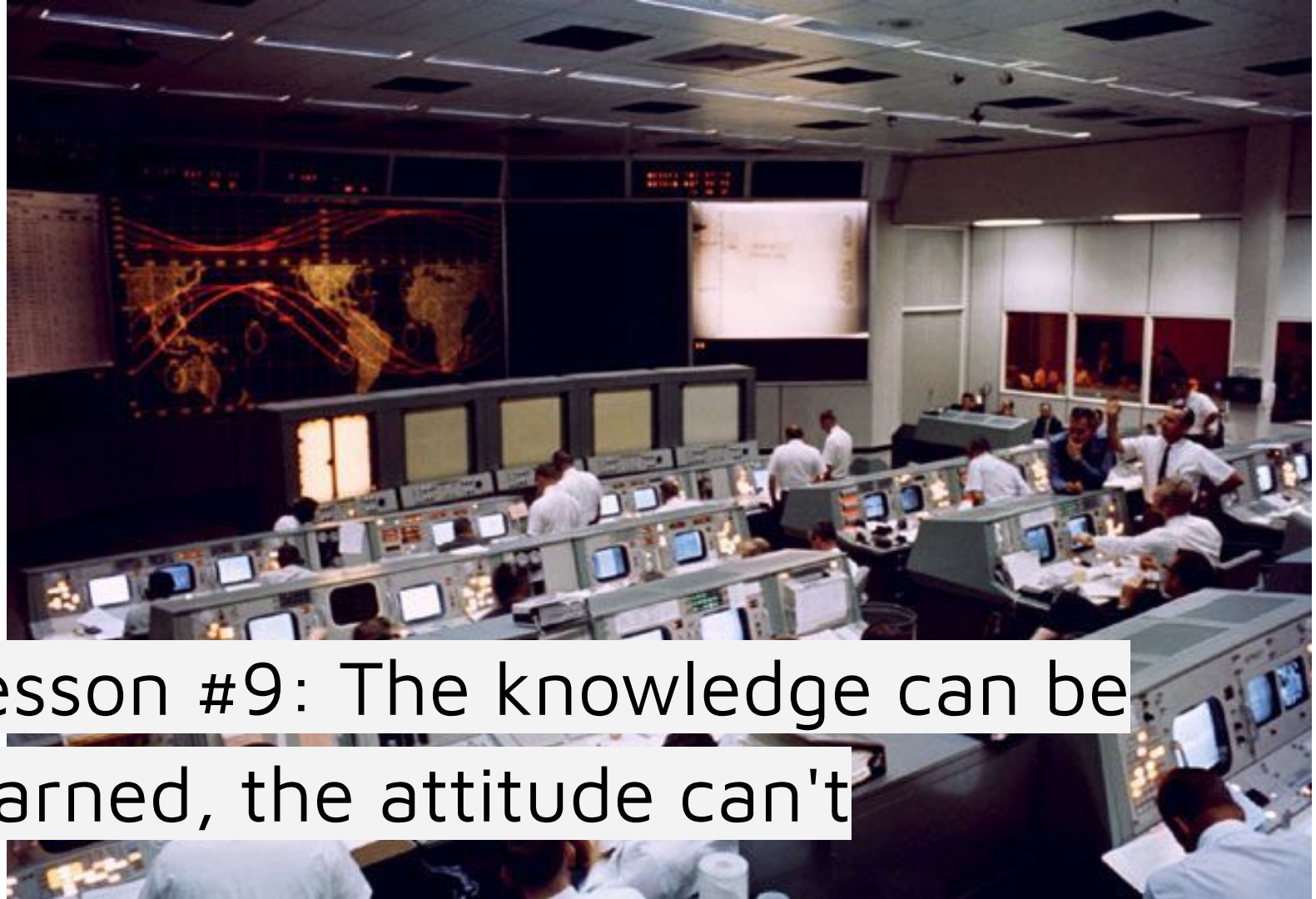

SPACE
FACTS


UNITED STATES

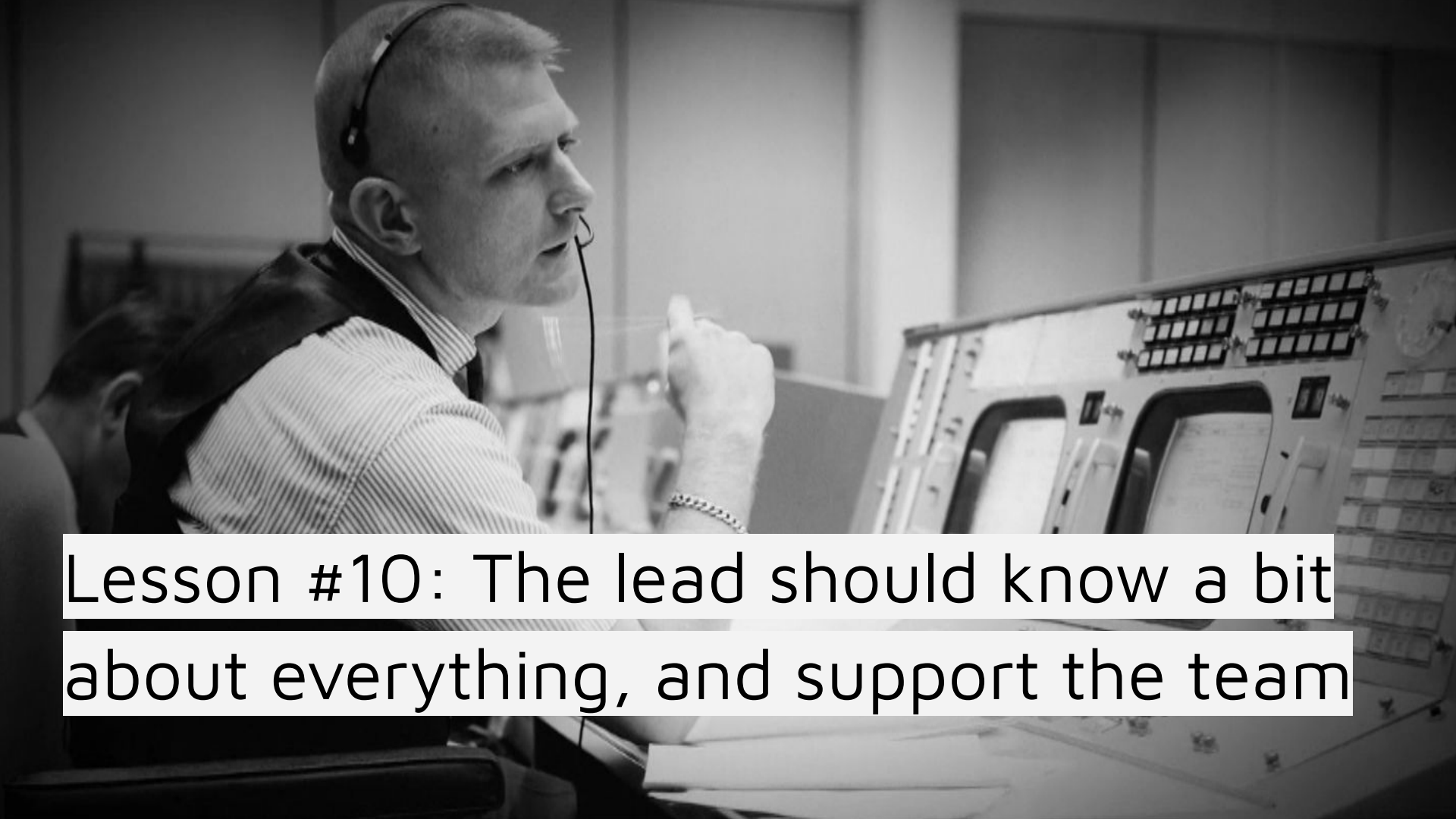
Lesson #7: Externalization is fine...

but supervise it

# Lesson #8: Hire talent



Lesson #9: The knowledge can be learned, the attitude can't



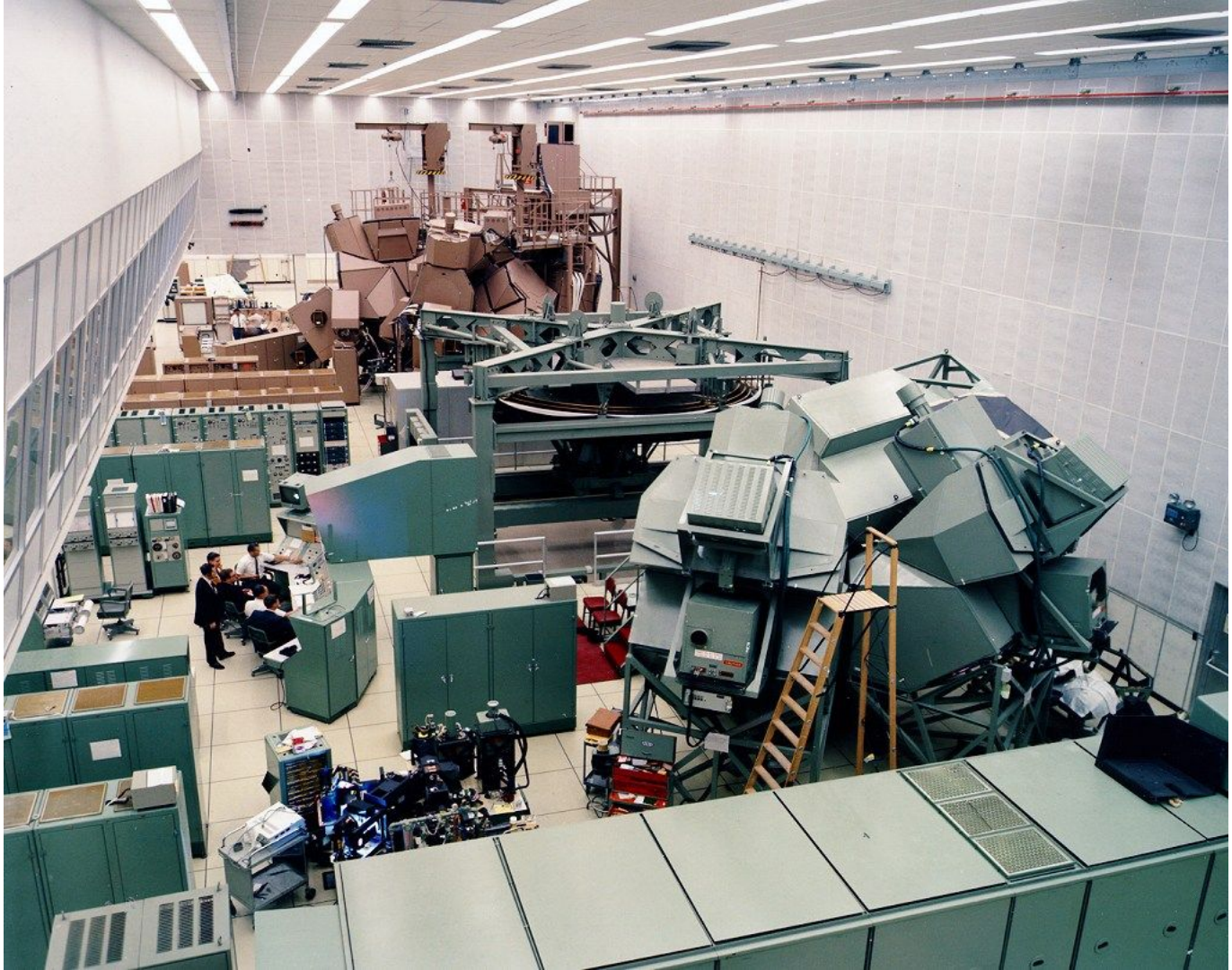
# Lesson #10: The lead should know a bit about everything, and support the team

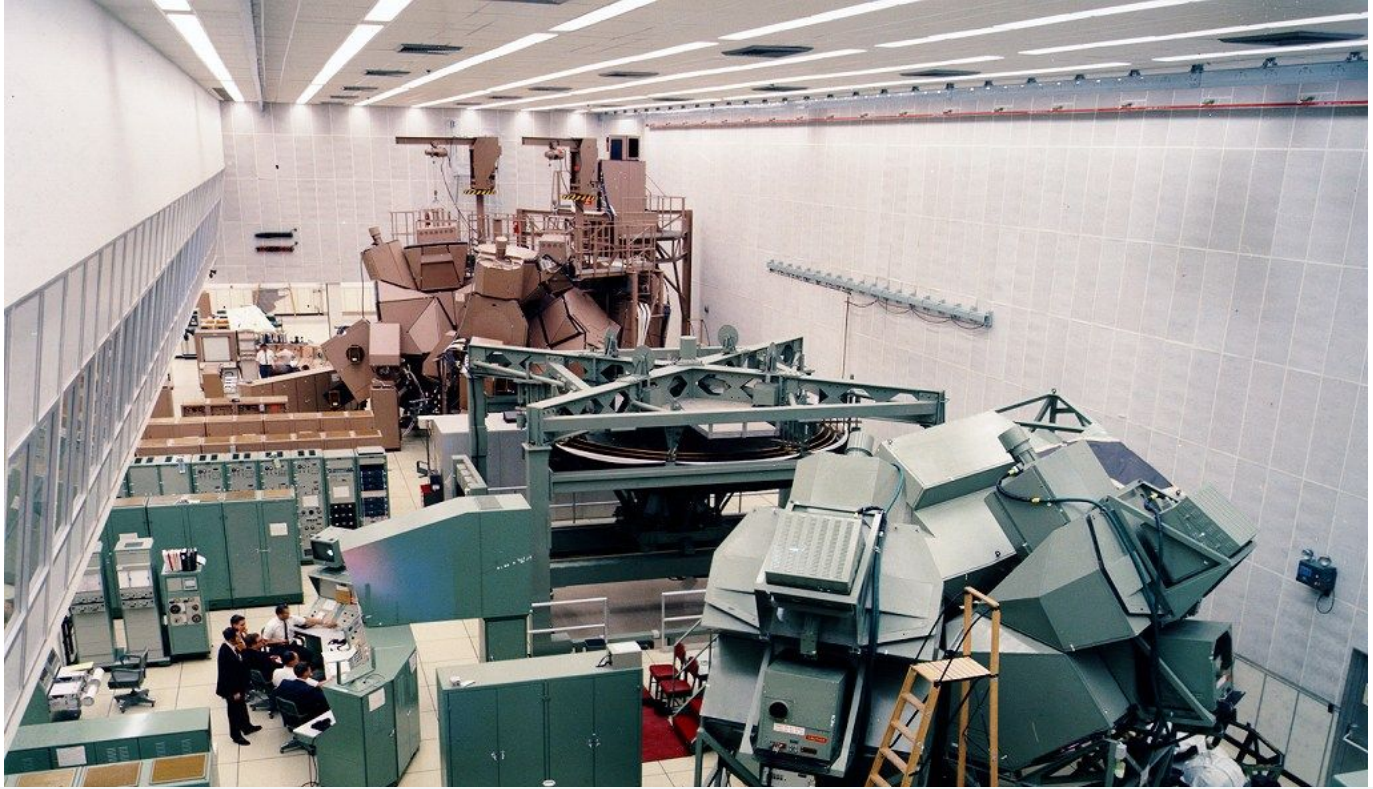
Apollo Flight Journal

APOLLO

Footage courtesy NASA

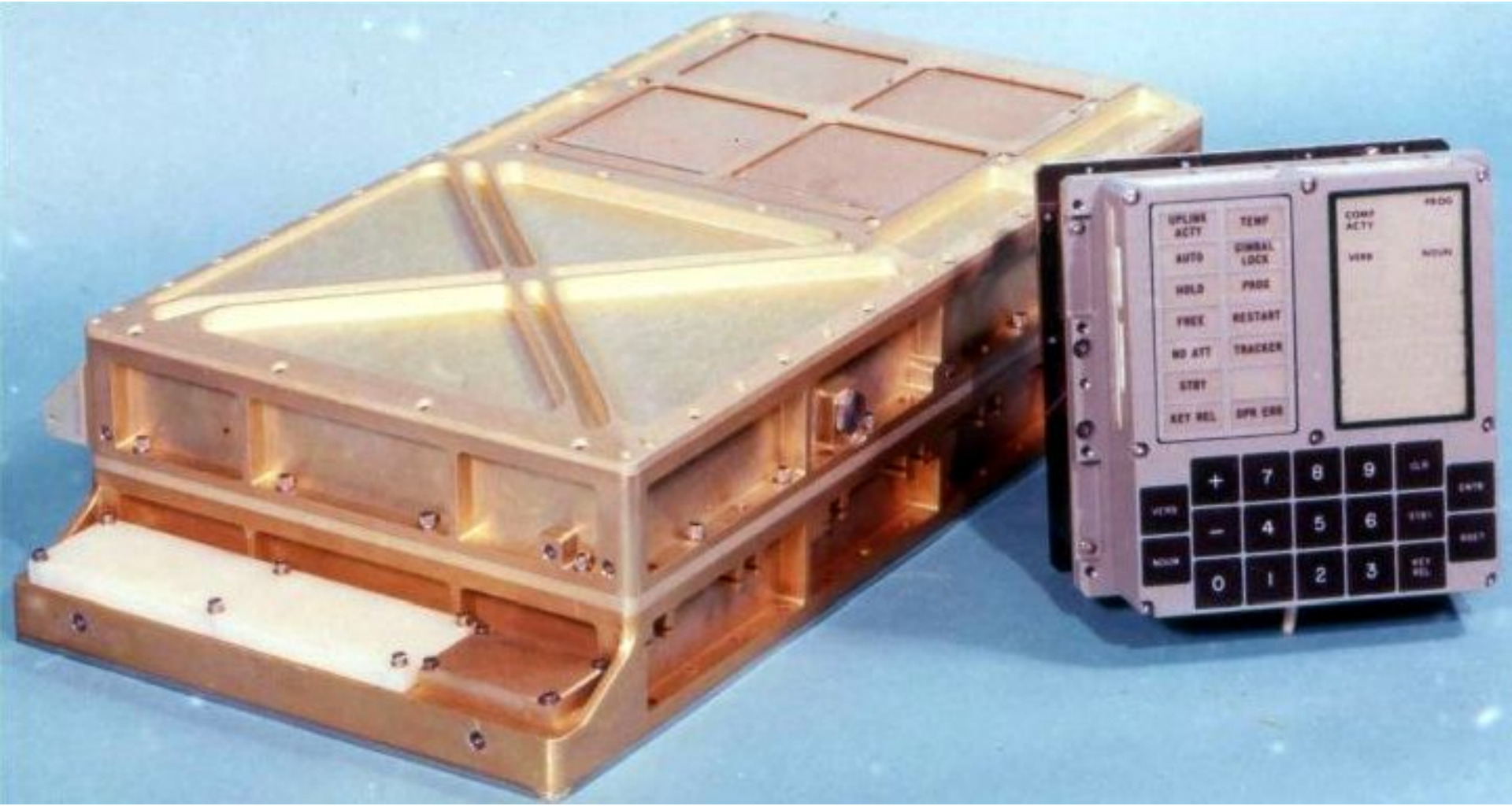

Lesson #11: Delegate and share responsibilities. Components ownership is important





Lesson #12: Ensure you tested almost every scenario before going to production

Lesson #13: Communicate effectively, don’t raise flags without double checking


UPLINK ACTY
TEMP
AUTO
GIMBAL LOCK
HOLD
PROG
FREE
RESTART
NO ATT
TRACKER
STBY
KEY REL
OPR ERR
COMP ACTY
PROG
VERB
NOUN
+
7
8
9
CLR
ENTR
−
4
5
6
STBY
RSET
0
1
2
3
KEY REL
VERB
NOUN


Lesson #14: Try to reuse everything.

# Lesson #15: Document successes and errors

“We would like to give special thanks to all those Americans who built the spacecraft; who did the construction, design, the tests, and put their hearts and all their abilities into those craft. To those people tonight, we give a special thank you”

Neil Amstrong, television broadcast from orbit

Lesson #16: Always remember that the team is the most important part of every project.


# Thanks!

Slido:
BDC2020T2D2

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