



1  
00:00:19,859 --> 00:00:17,730  
kittyhawk 1903 the success of the Wright

2  
00:00:28,570 --> 00:00:19,869  
brothers put America at the leading edge

3  
00:00:34,590 --> 00:00:31,370  
the national advisory committee for

4  
00:00:37,439 --> 00:00:34,600  
aeronautics for 75 years

5  
00:00:40,500 --> 00:00:37,449  
the NACA NASA team is continuing to

6  
00:00:42,869 --> 00:00:40,510  
fulfill this mission to supervise and

7  
00:00:45,340 --> 00:00:42,879  
direct the scientific study of problems

8  
00:00:52,870 --> 00:00:45,350  
and solutions of flight

9  
00:00:58,850 --> 00:00:55,280  
dramatic advancements have been made in

10  
00:01:02,180 --> 00:00:58,860  
reducing drag and increasing speed for

11  
00:01:04,460 --> 00:01:02,190  
instance in 1947 more politic

12  
00:01:09,310 --> 00:01:04,470  
Chuck Yeager bro listen Maryann

13  
00:01:09,320 --> 00:01:22,760

and the x5 build the variable sleep

14

00:01:33,030 --> 00:01:26,850

subspace reaching 4,500 miles per hour

15

00:01:37,890 --> 00:01:36,690

inside the carpet control panels once a

16

00:01:40,440 --> 00:01:37,900

myriad of

17

00:01:42,720 --> 00:01:40,450

are being consolidated into these

18

00:01:46,770 --> 00:01:42,730

anti-riot monitor that they're pinning

19

00:01:49,560 --> 00:01:46,780

on h1 bring and safe manner also helping

20

00:01:51,420 --> 00:01:49,570

the pilot or flight simulation other for

21

00:01:54,270 --> 00:01:51,430

a while the only way to get the feel of

22

00:01:56,790 --> 00:01:54,280

an aircraft posters I had been flight

23

00:02:00,710 --> 00:01:56,800

simulation show how an aircraft will

24

00:02:03,330 --> 00:02:00,720

perform without leaving the ground

25

00:02:06,420 --> 00:02:03,340

together with wind tunnel testing and

26  
00:02:08,190 --> 00:02:06,430  
computational fluid dynamics engineers

27  
00:02:15,760 --> 00:02:08,200  
and pilots have the best information

28  
00:02:20,600 --> 00:02:17,960  
aeronautical improvements like these

29  
00:02:24,110 --> 00:02:20,610  
have led NASA to a blending of air and

30  
00:02:27,950 --> 00:02:24,120  
space case in point the lifting body

31  
00:02:30,920 --> 00:02:27,960  
concept have spacecraft half aircraft a

32  
00:02:34,520 --> 00:02:30,930  
lifting body achieves aerodynamic lift

33  
00:02:36,740 --> 00:02:34,530  
from the shape of its body alone lifting

34  
00:02:39,830 --> 00:02:36,750  
bodies were precursors to masses

35  
00:02:42,620 --> 00:02:39,840  
successful space shuttle and we have

36  
00:02:45,530 --> 00:02:42,630  
touchdown you're coming flight

37  
00:02:48,920 --> 00:02:45,540  
experience from many programs has led to

38  
00:02:53,330 --> 00:02:48,930

the planned x30 also known as the

39

00:03:01,410 --> 00:02:53,340

national aerospace plane this will be

40

00:03:01,420 --> 00:03:08,550

1500 miles per hour into low-earth orbit

41

00:03:16,330 --> 00:03:12,569

NASA's world-class Aeronautics program