



1
00:00:22,120 --> 00:00:18,850
Mars X house is autonomously constructed

2
00:00:24,460 --> 00:00:22,130
using indigenous Martian materials to

3
00:00:46,970 --> 00:00:24,470
form a pioneering and durable habitat

4
00:00:46,980 --> 00:00:50,250
[Music]

5
00:00:55,680 --> 00:00:53,190
in closing an atmosphere of pressure in

6
00:01:15,050 --> 00:00:55,690
the near vacuum of Mars is a major

7
00:01:20,060 --> 00:01:17,539
Eck's house takes advantage of the

8
00:01:21,800 --> 00:01:20,070
unique capabilities of 3d printing to

9
00:01:24,560 --> 00:01:21,810
provide maximum radiation protection

10
00:01:26,749 --> 00:01:24,570
from galactic cosmic rays while

11
00:01:28,719 --> 00:01:26,759
celebrating human life through vital

12
00:01:44,350 --> 00:01:28,729
connections to natural light and the

13
00:01:49,760 --> 00:01:46,940

independent and redundant mechanical

14

00:01:51,650 --> 00:01:49,770

zones isolate each laboratory from the

15

00:02:01,109 --> 00:01:51,660

living spaces in the event of an

16

00:02:06,870 --> 00:02:04,200

the benefits of is are you regolith

17

00:02:10,610 --> 00:02:06,880

construction include radiation shielding

18

00:02:22,040 --> 00:02:10,620

and physical protection

19

00:02:29,239 --> 00:02:26,339

[Music]

20

00:02:32,520 --> 00:02:29,249

searches human-centered approach

21

00:02:35,099 --> 00:02:32,530

prioritizes safety redundancy and the

22

00:02:39,820 --> 00:02:35,109

well-being of the crew above the Martian

23

00:03:17,120 --> 00:02:48,860

[Music]

24

00:03:20,570 --> 00:03:17,130

the mechanical core is a pre-integrated

25

00:03:24,080 --> 00:03:20,580

unit that simplifies integration of MEP

26

00:03:26,180 --> 00:03:24,090

and eclss systems which would otherwise

27

00:03:29,980 --> 00:03:26,190

need to be robotically positioned and