



 **esa**
European Space Agency




agenzia
spaziale
italiana

 **esa**
European Space Agency


ASPI
Agenzia Spaziale Italiana



1
00:00:07,909 --> 00:00:02,869
station this is isa piero in rome

2
00:00:17,109 --> 00:00:09,509
and julia have you loud and clear

3
00:00:20,710 --> 00:00:19,269
thank you samantha we are with a lot of

4
00:00:27,269 --> 00:00:20,720
kids here and i leave the floor to

5
00:00:31,750 --> 00:00:28,870
samantha it's a great pleasure to see

6
00:00:33,830 --> 00:00:31,760
you today in this great room full of

7
00:00:36,069 --> 00:00:33,840
young kids

8
00:00:38,709 --> 00:00:36,079
we are here with uh representatives of

9
00:00:43,190 --> 00:00:40,229
mrs griffony

10
00:00:45,110 --> 00:00:43,200
and the representative of the air force

11
00:00:47,910 --> 00:00:45,120
and minister giannini

12
00:00:50,389 --> 00:00:48,790
our

13
00:01:03,029 --> 00:00:50,399

person for this

14

00:01:08,630 --> 00:01:05,270

i'm gonna send you greetings uh so that

15

00:01:10,710 --> 00:01:08,640

i don't uh interrupt the dialogue so i

16

00:01:12,950 --> 00:01:10,720

remind the kids that samantha has a

17

00:01:15,670 --> 00:01:12,960

little bit of a delay of a few seconds

18

00:01:17,749 --> 00:01:15,680

so so that where we don't lose time

19

00:01:23,429 --> 00:01:17,759

we're gonna say hello all together and

20

00:01:23,439 --> 00:01:33,270

this is elena great reading

21

00:01:38,390 --> 00:01:35,590

i just wanted to wish you uh

22

00:01:40,950 --> 00:01:38,400

congratulations for the work that awaits

23

00:01:43,190 --> 00:01:40,960

you in the next few weeks and i hope to

24

00:01:45,830 --> 00:01:43,200

see you soon bye-bye

25

00:01:49,270 --> 00:01:47,910

i'm not general magruder i'm commander

26

00:01:51,190 --> 00:01:49,280

pharaoh but

27

00:01:53,350 --> 00:01:51,200

on whose behalf i bring you his

28

00:01:55,749 --> 00:01:53,360

greetings and i bring you greetings of

29

00:02:01,990 --> 00:01:55,759

the entire air force and uh we are

30

00:02:07,350 --> 00:02:04,950

i am stefania giannini the minister of

31

00:02:09,190 --> 00:02:07,360

education for university of research i'm

32

00:02:12,070 --> 00:02:09,200

so happy to be here today

33

00:02:14,869 --> 00:02:12,080

with a great representation of the

34

00:02:16,869 --> 00:02:14,879

italian schools uh we are waiting for

35

00:02:18,550 --> 00:02:16,879

you and i will let you know why

36

00:02:20,949 --> 00:02:18,560

oh and we're starting with that question

37

00:02:24,150 --> 00:02:20,959

so it's my turn i have the privilege

38

00:02:26,630 --> 00:02:24,160

uh i also i'm a little starstruck

39

00:02:28,790 --> 00:02:26,640

so hopefully i think i represent

40

00:02:30,630 --> 00:02:28,800

everybody's emotions here but

41

00:02:33,270 --> 00:02:30,640

they'll have the opportunity to ask you

42

00:02:34,229 --> 00:02:33,280

something but the first question

43

00:02:36,390 --> 00:02:34,239

is

44

00:02:39,350 --> 00:02:36,400

when you started

45

00:02:41,190 --> 00:02:39,360

to feel that beyond being an engineer

46

00:02:42,949 --> 00:02:41,200

you maybe

47

00:02:44,630 --> 00:02:42,959

felt like doing something special

48

00:02:47,509 --> 00:02:44,640

something more was it at the beginning

49

00:02:50,949 --> 00:02:47,519

of your studies or is it something that

50

00:02:52,070 --> 00:02:50,959

uh came to you during your path during

51

00:02:56,229 --> 00:02:52,080

your

52

00:03:00,470 --> 00:02:59,030

they don't want first of all good day

53

00:03:07,589 --> 00:03:00,480

to everyone

54

00:03:13,030 --> 00:03:10,470

and a warm hello to all the

55

00:03:16,309 --> 00:03:13,040

boys and girls that are there today and

56

00:03:18,869 --> 00:03:16,319

to all welcome to space on board of the

57

00:03:21,670 --> 00:03:18,879

international space station to answer a

58

00:03:26,229 --> 00:03:24,149

in truth i i've always dreamt since i

59

00:03:28,630 --> 00:03:26,239

was a little girl

60

00:03:30,390 --> 00:03:28,640

to travel in space

61

00:03:31,830 --> 00:03:30,400

as an astronaut perhaps i didn't even

62

00:03:34,149 --> 00:03:31,840

know what an astronaut was but i wanted

63

00:03:36,630 --> 00:03:34,159

to go into space often i say that i

64

00:03:38,630 --> 00:03:36,640

didn't choose space as a career but uh

65

00:03:41,190 --> 00:03:38,640

space chose me

66

00:03:44,149 --> 00:03:41,200

because it happened before before i

67

00:03:46,710 --> 00:03:44,159

really could make a conscious choice

68

00:03:49,190 --> 00:03:46,720

but naturally you know growing up

69

00:03:51,589 --> 00:03:49,200

and as a person develops interests more

70

00:03:55,350 --> 00:03:51,599

concrete passions so things that i

71

00:03:57,589 --> 00:03:55,360

developed uh for science flight

72

00:03:59,750 --> 00:03:57,599

technology they put me on the right path

73

00:04:01,429 --> 00:03:59,760

to be able to realize the stream of

74

00:04:02,869 --> 00:04:01,439

being able to travel to space so my

75

00:04:04,550 --> 00:04:02,879

fantasies

76

00:04:06,309 --> 00:04:04,560

as as a child

77

00:04:09,030 --> 00:04:06,319

uh converged

78

00:04:09,830 --> 00:04:09,040

into my interests and my passions of of

79

00:04:46,390 --> 00:04:09,840

a

80

00:04:49,030 --> 00:04:46,400

do you feel

81

00:04:50,469 --> 00:04:49,040

after well let's say we were here for

82

00:04:53,030 --> 00:04:50,479

the launch

83

00:04:55,430 --> 00:04:53,040

that was how long

84

00:04:57,270 --> 00:04:55,440

so it's been

85

00:05:00,150 --> 00:04:57,280

about five months

86

00:05:01,909 --> 00:05:00,160

so after five months of being away from

87

00:05:03,189 --> 00:05:01,919

all those things that

88

00:05:05,189 --> 00:05:03,199

that even though you're prepared for

89

00:05:07,350 --> 00:05:05,199

this experience

90

00:05:11,430 --> 00:05:07,360

they they represent your everyday life

91

00:05:11,440 --> 00:05:16,629

so do you miss earth in other words

92

00:05:20,469 --> 00:05:18,710

minister i have to say in general as a

93

00:05:23,430 --> 00:05:20,479

person i do not

94

00:05:25,830 --> 00:05:23,440

uh i'm not very nostalgic i'm very used

95

00:05:28,310 --> 00:05:25,840

ever since i was little to change

96

00:05:30,870 --> 00:05:28,320

environments to move so i think i think

97

00:05:32,790 --> 00:05:30,880

my experiences of life taught me to

98

00:05:35,270 --> 00:05:32,800

adapt and then to accept what the

99

00:05:38,790 --> 00:05:35,280

environment is around me as a new normal

100

00:05:41,029 --> 00:05:38,800

as a new home so i have to say after

101
00:05:42,390 --> 00:05:41,039
after the great joy and euphoria the

102
00:05:43,909 --> 00:05:42,400
initial

103
00:05:45,909 --> 00:05:43,919
period of uh

104
00:05:47,830 --> 00:05:45,919
adaptation because at first i just felt

105
00:05:49,909 --> 00:05:47,840
like a child you have to learn

106
00:05:52,710 --> 00:05:49,919
everything again here but here after

107
00:05:54,390 --> 00:05:52,720
five months in space i really feel like

108
00:05:56,629 --> 00:05:54,400
i'm perfectly adapted

109
00:05:59,189 --> 00:05:56,639
i i feel at home

110
00:06:01,510 --> 00:05:59,199
of course some things i miss that the

111
00:06:02,710 --> 00:06:01,520
presence of of

112
00:06:04,950 --> 00:06:02,720
loved ones

113
00:06:06,710 --> 00:06:04,960

uh simple things like being able to take

114

00:06:08,230 --> 00:06:06,720

a shower but

115

00:06:09,590 --> 00:06:08,240

let's say

116

00:06:13,189 --> 00:06:09,600

as a character

117

00:06:15,029 --> 00:06:13,199

i i tend to not focus on on uh missing

118

00:06:17,430 --> 00:06:15,039

things but i enjoy the praise and then

119

00:06:19,189 --> 00:06:17,440

then i'm sure when i'll be back on earth

120

00:06:21,510 --> 00:06:19,199

i'll have to adapt

121

00:06:29,430 --> 00:06:21,520

to being a terrestrial human being

122

00:06:29,440 --> 00:06:32,870

a very last question

123

00:06:32,880 --> 00:06:36,230

how

124

00:06:40,230 --> 00:06:38,550

help all these kids that are here and

125

00:06:42,230 --> 00:06:40,240

all their

126
00:06:44,469 --> 00:06:42,240
schoolmates that are in italian schools

127
00:06:46,230 --> 00:06:44,479
today if they want

128
00:06:47,990 --> 00:06:46,240
and if they have the same talents and

129
00:06:49,110 --> 00:06:48,000
determination

130
00:06:50,150 --> 00:06:49,120
to

131
00:06:51,990 --> 00:06:50,160
follow

132
00:06:53,830 --> 00:06:52,000
an extraordinary dream

133
00:06:56,550 --> 00:06:53,840
like that of becoming an astronaut or

134
00:06:58,710 --> 00:06:56,560
being a great scientist or a researcher

135
00:07:01,430 --> 00:06:58,720
i i putting i'm putting in all my

136
00:07:03,990 --> 00:07:01,440
efforts but but perhaps seeing the world

137
00:07:05,990 --> 00:07:04,000
from above you'll have some suggestions

138
00:07:10,469 --> 00:07:06,000

even something important i i would be

139

00:07:12,629 --> 00:07:10,479

grateful if you could uh give me some

140

00:07:13,909 --> 00:07:12,639

ministry minister thank you for the

141

00:07:18,390 --> 00:07:13,919

question and

142

00:07:23,270 --> 00:07:20,230

but by saying that first i i don't feel

143

00:07:25,749 --> 00:07:23,280

competent to to uh

144

00:07:27,510 --> 00:07:25,759

suggestions about policy but but with

145

00:07:29,430 --> 00:07:27,520

humility i would like to say that

146

00:07:32,150 --> 00:07:29,440

perhaps

147

00:07:35,990 --> 00:07:32,160

we need to increase attention

148

00:07:40,070 --> 00:07:36,000

in italian schools for scientific uh

149

00:07:42,550 --> 00:07:40,080

topics like mathematics and technology

150

00:07:43,589 --> 00:07:42,560

to increase or

151
00:07:46,070 --> 00:07:43,599
allow

152
00:07:48,150 --> 00:07:46,080
or increase effectiveness of learning

153
00:07:51,430 --> 00:07:48,160
english

154
00:07:53,749 --> 00:07:51,440
and let students uh move more in in

155
00:07:55,029 --> 00:07:53,759
terms of international exchanges so that

156
00:07:57,430 --> 00:07:55,039
they can

157
00:08:05,830 --> 00:07:57,440
make experiences of study and life

158
00:08:10,790 --> 00:08:08,230
then i i'm on the right i'm on the right

159
00:08:12,869 --> 00:08:10,800
path so it's a long journey but i'm on

160
00:08:15,589 --> 00:08:12,879
the right path thank you so much

161
00:08:16,629 --> 00:08:15,599
samantha uh let's uh thank the minister

162
00:08:19,189 --> 00:08:16,639
for now

163
00:08:20,710 --> 00:08:19,199

let's uh let's go to the students now

164

00:08:23,510 --> 00:08:20,720

and then uh

165

00:08:26,390 --> 00:08:23,520

and then i see a little doll a stuffed

166

00:08:29,029 --> 00:08:26,400

doll there on your right what is it no

167

00:08:30,309 --> 00:08:29,039

boxy yes so paxi

168

00:08:35,909 --> 00:08:30,319

has been here

169

00:08:43,350 --> 00:08:37,990

she helps

170

00:08:46,310 --> 00:08:43,360

europe but i still don't understand

171

00:08:49,910 --> 00:08:46,320

if it's a boy or a girl

172

00:08:52,389 --> 00:08:49,920

everyone can decide for themselves

173

00:09:03,190 --> 00:08:52,399

i i keep her here in columbus and and

174

00:09:06,230 --> 00:09:04,710

hello samantha

175

00:09:07,670 --> 00:09:06,240

this is marco chito

176
00:09:11,509 --> 00:09:07,680
from

177
00:09:12,710 --> 00:09:11,519
this is my question among your

178
00:09:15,670 --> 00:09:12,720
experiments

179
00:09:15,680 --> 00:09:19,030
on microgravity

180
00:09:22,470 --> 00:09:19,750
the

181
00:09:26,630 --> 00:09:22,480
research

182
00:09:30,150 --> 00:09:28,790
understand the uh

183
00:09:32,150 --> 00:09:30,160
self-sufficient

184
00:09:35,350 --> 00:09:32,160
experiments in the future that's that's

185
00:09:37,590 --> 00:09:35,360
a very interesting question so yes

186
00:09:39,350 --> 00:09:37,600
the answer is absolutely yes many of the

187
00:09:42,790 --> 00:09:39,360
experiments that uh

188
00:09:46,389 --> 00:09:45,269

effects in two different fields

189

00:09:48,550 --> 00:09:46,399

so

190

00:09:52,310 --> 00:09:48,560

they allow us to understand biological

191

00:09:55,190 --> 00:09:52,320

mechanisms like you're saying of of the

192

00:09:57,350 --> 00:09:55,200

vegetable world and then

193

00:10:00,230 --> 00:09:57,360

but also at the animal world and as

194

00:10:03,350 --> 00:10:00,240

human beings so from one side that will

195

00:10:05,509 --> 00:10:03,360

allow us to understand how to adapt to

196

00:10:07,430 --> 00:10:05,519

live in space for long missions so again

197

00:10:10,069 --> 00:10:07,440

if we want to continue to explore the

198

00:10:11,910 --> 00:10:10,079

solar system beyond low earth orbit we

199

00:10:14,389 --> 00:10:11,920

need to be able to stay in space much

200

00:10:16,870 --> 00:10:14,399

longer than we do now for six months

201

00:10:18,470 --> 00:10:16,880

even even if i see it here i

202

00:10:20,870 --> 00:10:18,480

you can't see him here but my colleague

203

00:10:22,310 --> 00:10:20,880

who arrived here a couple of weeks ago

204

00:10:24,310 --> 00:10:22,320

but he's going to be here for a year but

205

00:10:25,750 --> 00:10:24,320

but again and then of course there are

206

00:10:27,670 --> 00:10:25,760

these these

207

00:10:29,590 --> 00:10:27,680

things that we learn

208

00:10:34,710 --> 00:10:29,600

allow us to

209

00:10:41,350 --> 00:10:37,030

biological processes that help earth

210

00:10:44,069 --> 00:10:41,360

research for example to understand how

211

00:10:46,710 --> 00:10:44,079

you develop some pathologies and and how

212

00:10:48,310 --> 00:10:46,720

you can act on them for example with new

213

00:10:49,990 --> 00:10:48,320

medicines

214

00:10:51,670 --> 00:10:50,000

and to counteract

215

00:10:54,389 --> 00:10:51,680

the development of an illness

216

00:10:56,790 --> 00:10:54,399

illness so again what we do here is both

217

00:10:57,670 --> 00:10:56,800

for exploration and

218

00:10:59,269 --> 00:10:57,680

for

219

00:11:09,269 --> 00:10:59,279

earth science

220

00:11:12,230 --> 00:11:10,550

hello samantha

221

00:11:17,430 --> 00:11:12,240

i'm soberi

222

00:11:20,870 --> 00:11:18,870

do you believe that our generation of

223

00:11:22,230 --> 00:11:20,880

youth will have

224

00:11:39,350 --> 00:11:22,240

the

225

00:11:39,360 --> 00:11:43,990

ciao hi saverio

226

00:11:49,990 --> 00:11:47,430

i think so i think that we will be i

227

00:11:51,030 --> 00:11:50,000

think your generation will see men and

228

00:11:52,870 --> 00:11:51,040

women

229

00:11:55,350 --> 00:11:52,880

on

230

00:11:57,910 --> 00:11:55,360

outside our low earth orbit so possibly

231

00:12:00,710 --> 00:11:57,920

on on the moon or we're talking about

232

00:12:02,550 --> 00:12:00,720

exploring asteroids and of course mars i

233

00:12:04,389 --> 00:12:02,560

don't know if we're gonna be talking

234

00:12:07,750 --> 00:12:04,399

about colonies so if we're saying

235

00:12:09,829 --> 00:12:07,760

colonies we mean people who uh immigrate

236

00:12:11,990 --> 00:12:09,839

that move on these celestial bodies and

237

00:12:14,790 --> 00:12:12,000

go live there at this i don't know but

238

00:12:16,949 --> 00:12:14,800

but i i have absolute faith that

239

00:12:19,190 --> 00:12:16,959

your generation will see

240

00:12:22,310 --> 00:12:19,200

an exploration even a

241

00:12:37,350 --> 00:12:22,320

massive by men and women beyond low

242

00:12:41,910 --> 00:12:39,430

this is danielle

243

00:12:43,829 --> 00:12:41,920

of the uh military school

244

00:12:46,550 --> 00:12:43,839

the photo that you send us from space

245

00:12:48,389 --> 00:12:46,560

are beautiful

246

00:12:50,550 --> 00:12:48,399

on one hand

247

00:12:53,030 --> 00:12:50,560

it shows us how little how small we are

248

00:12:55,030 --> 00:12:53,040

but on the other hand they they give us

249

00:12:56,310 --> 00:12:55,040

great energy to understand how important

250

00:12:58,230 --> 00:12:56,320

it is to

251
00:12:59,670 --> 00:12:58,240
uh preserve this marvelous planet that

252
00:13:02,629 --> 00:12:59,680
is earth

253
00:13:04,069 --> 00:13:02,639
being young we we have a long road in

254
00:13:07,030 --> 00:13:04,079
front of us but

255
00:13:10,790 --> 00:13:07,040
i think your example and your experience

256
00:13:13,750 --> 00:13:10,800
are a great stimulus to face the

257
00:13:16,310 --> 00:13:13,760
our activities our challenges with uh

258
00:13:18,629 --> 00:13:16,320
great energy because if you said that if

259
00:13:20,949 --> 00:13:18,639
we have to choose between two

260
00:13:22,870 --> 00:13:20,959
roads it's best to

261
00:13:25,829 --> 00:13:22,880
take the one a pill because it brings

262
00:13:28,550 --> 00:13:25,839
more success so my question is captain

263
00:13:43,910 --> 00:13:28,560

what is the right ingredient to arrive

264

00:13:49,750 --> 00:13:46,629

talking about making choices while we

265

00:13:52,389 --> 00:13:49,760

grow up that challenge us that test our

266

00:13:53,910 --> 00:13:52,399

limits because in this way

267

00:13:57,110 --> 00:13:53,920

you get stronger

268

00:13:58,710 --> 00:13:57,120

you understand

269

00:14:00,389 --> 00:13:58,720

how strong you are because in the end

270

00:14:03,030 --> 00:14:00,399

your your strength

271

00:14:05,509 --> 00:14:03,040

and your grit are like muscles in our

272

00:14:07,750 --> 00:14:05,519

body even if it either you use them or

273

00:14:09,750 --> 00:14:07,760

they they deteriorate so you have to

274

00:14:10,710 --> 00:14:09,760

continue to challenge yourself stimulate

275

00:14:14,629 --> 00:14:10,720

yourself

276

00:14:17,910 --> 00:14:14,639

you can you can train these muscles like

277

00:14:19,910 --> 00:14:17,920

determination motivation and grit

278

00:14:22,069 --> 00:14:19,920

so i believe truly

279

00:14:23,829 --> 00:14:22,079

that of course studying is very

280

00:14:26,230 --> 00:14:23,839

important and that's a fact but there

281

00:14:28,470 --> 00:14:26,240

are many people who are are great in

282

00:14:31,030 --> 00:14:28,480

school and in college and in studies but

283

00:14:33,910 --> 00:14:31,040

then then what differentiates

284

00:14:36,310 --> 00:14:33,920

from really being able to to

285

00:14:39,189 --> 00:14:36,320

achieve things that's characters and

286

00:14:40,870 --> 00:14:39,199

grit and and the the ability every day

287

00:14:42,710 --> 00:14:40,880

to to just

288

00:14:45,430 --> 00:14:42,720

create your teeth and and give

289

00:14:47,030 --> 00:14:45,440

everything you can so

290

00:14:55,110 --> 00:14:47,040

when in doubt without even thinking

291

00:15:02,790 --> 00:14:56,629

first of all good day good evening

292

00:15:09,269 --> 00:15:04,550

and i would like to be a theoretical

293

00:15:21,350 --> 00:15:13,430

the emergency plans for launch and the

294

00:15:25,990 --> 00:15:23,590

i have to ask you to to repeat the

295

00:15:29,509 --> 00:15:26,000

question do you mean the

296

00:15:35,509 --> 00:15:29,519

launch and return of a space vehicle

297

00:15:35,519 --> 00:15:48,230

yes

298

00:15:53,829 --> 00:15:49,910

so i wanted to know what the emergency

299

00:15:58,550 --> 00:15:56,310

okay okay so they confirmed that that

300

00:16:00,389 --> 00:15:58,560

was a question so i i think that you

301
00:16:02,790 --> 00:16:00,399
definitely

302
00:16:04,949 --> 00:16:02,800
caught the fact that that launch

303
00:16:07,030 --> 00:16:04,959
and return in a space mission are two

304
00:16:09,350 --> 00:16:07,040
critical moments fundamentally because

305
00:16:10,870 --> 00:16:09,360
there are great energies at play you

306
00:16:12,150 --> 00:16:10,880
know during lunch you you can see it

307
00:16:13,910 --> 00:16:12,160
visibly

308
00:16:15,990 --> 00:16:13,920
there's a great energy that's released

309
00:16:20,870 --> 00:16:16,000
we have to release a

310
00:16:22,310 --> 00:16:20,880
uh space vehicle uh at 400 kilometers

311
00:16:25,509 --> 00:16:22,320
per

312
00:16:28,870 --> 00:16:25,519
so you you're sending this space vehicle

313
00:16:31,590 --> 00:16:28,880

at a great speed at 28 000 uh kilometers

314

00:16:34,870 --> 00:16:31,600

per minute so so when you re-enter you

315

00:16:37,350 --> 00:16:34,880

have to dissipate this energy

316

00:16:38,150 --> 00:16:37,360

so that you can impact the ground with

317

00:16:41,910 --> 00:16:38,160

uh

318

00:16:44,470 --> 00:16:41,920

an acceptable speed so during launch

319

00:16:45,590 --> 00:16:44,480

bad things that can happen are

320

00:16:49,189 --> 00:16:45,600

our

321

00:16:52,069 --> 00:16:49,199

malfunctions in the rocket so there are

322

00:16:53,910 --> 00:16:52,079

emergency evacuation systems especially

323

00:16:56,790 --> 00:16:53,920

when you're still on the launch pad so

324

00:16:59,430 --> 00:16:56,800

for example if if a fire should develop

325

00:17:01,749 --> 00:16:59,440

or in the first phases of flight

326

00:17:04,710 --> 00:17:01,759

there is an evacuation system that

327

00:17:07,110 --> 00:17:04,720

basically separate the vehicle from

328

00:17:09,270 --> 00:17:07,120

the rocket and and pushes it away with a

329

00:17:10,630 --> 00:17:09,280

great acceleration so let's say not very

330

00:17:12,390 --> 00:17:10,640

comfortable

331

00:17:15,270 --> 00:17:12,400

probably the astronauts would be hurt

332

00:17:17,029 --> 00:17:15,280

but they would survive this emergency

333

00:17:19,990 --> 00:17:17,039

and then throughout all the other phases

334

00:17:22,309 --> 00:17:20,000

until the orbital injection depending on

335

00:17:24,230 --> 00:17:22,319

what phase you're in and so

336

00:17:26,789 --> 00:17:24,240

at what altitude and speed you are there

337

00:17:28,549 --> 00:17:26,799

are different procedures

338

00:17:29,750 --> 00:17:28,559

for emergencies to be able to come back

339

00:17:31,909 --> 00:17:29,760

to earth

340

00:17:36,870 --> 00:17:31,919

safely so in our case we launched from

341

00:17:43,350 --> 00:17:39,270

all the path throughout asia was full of

342

00:17:45,190 --> 00:17:43,360

vehicles that were ready to help us

343

00:17:47,990 --> 00:17:45,200

rescue us in case we were not able to

344

00:17:50,789 --> 00:17:48,000

get to orbit and needed to re-enter the

345

00:17:53,430 --> 00:17:50,799

earth before coming arriving in space

346

00:17:56,230 --> 00:17:53,440

for re-entry fundamentally

347

00:17:58,470 --> 00:17:56,240

the emergencies that are

348

00:18:00,789 --> 00:17:58,480

predicted or better the contingencies

349

00:18:03,909 --> 00:18:00,799

that that we have

350

00:18:06,789 --> 00:18:03,919

to go from a an automatic re-entry

351

00:18:09,590 --> 00:18:06,799

from from different kinds of manual

352

00:18:11,350 --> 00:18:09,600

re-entry so from an and

353

00:18:13,430 --> 00:18:11,360

an automatic one to one completely

354

00:18:15,990 --> 00:18:13,440

manual

355

00:18:17,830 --> 00:18:16,000

to even arrive to a ballistic reentry to

356

00:18:21,350 --> 00:18:17,840

where essentially you're you're

357

00:18:24,070 --> 00:18:21,360

re-entering like a rock the soyuz is is

358

00:18:25,750 --> 00:18:24,080

able to survive as the astronauts are uh

359

00:18:27,510 --> 00:18:25,760

even then not not very comfortable

360

00:18:34,630 --> 00:18:27,520

because it has some g's some

361

00:18:38,390 --> 00:18:36,549

and that's it from rome and that's it

362

00:18:53,190 --> 00:18:38,400

from rome thank you samantha

363

00:18:58,470 --> 00:18:56,310

i thank you all

364

00:19:00,870 --> 00:18:58,480

pleasure for me speaking with you i know

365

00:19:03,430 --> 00:19:00,880

there are hundreds of uh

366

00:19:06,710 --> 00:19:03,440

young men and women in the room so

367

00:19:09,110 --> 00:19:06,720

i truly hope that this can be

368

00:19:10,390 --> 00:19:09,120

a reason of inspiration for coming to

369

00:19:13,590 --> 00:19:10,400

space today

370

00:19:15,830 --> 00:19:13,600

and i hope that you continue uh well in

371

00:19:18,150 --> 00:19:15,840

your studies so continue to challenge

372

00:19:21,510 --> 00:19:18,160

yourselves so that you can grow as

373

00:19:24,070 --> 00:19:21,520

people both prepared and and and

374

00:19:25,750 --> 00:19:24,080

faithful in your own abilities so that

375

00:19:28,310 --> 00:19:25,760

you're going to be able to realize your

376

00:19:31,750 --> 00:19:28,320

dreams and aspirations good luck to all

377

00:19:36,470 --> 00:19:33,510

station this is houston acr that

378

00:19:38,710 --> 00:19:36,480

concludes the event thank you

379

00:19:41,029 --> 00:19:38,720

thank you european space agency italian

380

00:19:42,870 --> 00:19:41,039

education minister stefania giannini and