

1
00:00:01,170 --> 00:00:04,900
An ocean liner is a totally enclosed system.

2
00:00:05,060 --> 00:00:09,120
It has medical, hospitals, emergency rooms.

3
00:00:09,280 --> 00:00:13,530
But it has no kitchens in the bedrooms, there's a dining area.

4
00:00:13,700 --> 00:00:17,890
and it's inefficient to put a kitchen in every bedroom

5
00:00:18,090 --> 00:00:20,870
on the ocean liner. Do you understand that?

6
00:00:21,010 --> 00:00:23,800
So they have areas set aside for that.

7
00:00:23,950 --> 00:00:28,240
They have a nurse, they have several nurses on the ocean liner.

8
00:00:28,450 --> 00:00:31,850
But what does a nurse do? A nurse can bandage

9
00:00:32,000 --> 00:00:34,360
she can close in surgery.

10

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So they have areas set aside for that.

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They have a nurse... several nurses, on the ocean liner.

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But what does a nurse do? A nurse can bandage,

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she can close in surgery.

10

sco-Total_Enclosure_System-June_30__2011_1_eng.srt - Jacque_Fresco-Total_Enclosure_System-June_30__2011

00:00:34,510 --> 00:00:36,910

There's no reason why

00:00:34,510 --> 00:00:36,910

There's no reason why

11

00:00:37,060 --> 00:00:40,830

the future will not have automated systems for doing that.

11

00:00:37,060 --> 00:00:41,330

the future will not have automated systems for doing that.

12

00:00:41,490 --> 00:00:45,890

They can invite a doctor from any area of the globe

12

00:00:41,490 --> 00:00:45,890

They can invite a doctor from any area of the globe

13

00:00:46,030 --> 00:00:49,710

onboard that boat. They can invite him

13

00:00:46,030 --> 00:00:49,710

on board that boat. They can invite him

14

00:00:49,880 --> 00:00:53,770

as a virtual image, or as a symbol manipulator.

14

00:00:49,880 --> 00:00:53,770

as a virtual image, or as a symbol manipulator.

15

00:00:53,930 --> 00:00:58,240

That doctor can study the condition without being there.

15

00:00:53,930 --> 00:00:58,240

And that doctor can study the condition without being there.

16

00:00:58,650 --> 00:01:02,920

So you have a totally different system. That's why I use the term

16

00:00:58,650 --> 00:01:02,920

So you have a totally different system. That's why I use the term

17

00:01:03,170 --> 00:01:05,890

total enclosure systems.

17

00:01:03,170 --> 00:01:05,890

total enclosure systems.

18

00:01:06,050 --> 00:01:08,910

Each building generates its own electricity

18

00:01:06,050 --> 00:01:08,910

Each building generates its own electricity,

19

19

00:01:09,060 --> 00:01:11,350

it provides for all human needs

00:01:09,060 --> 00:01:11,350

it provides for all human needs,

20

00:01:11,490 --> 00:01:15,330

and even grows food in the building or prepares food.

20

00:01:11,490 --> 00:01:15,830

and even grows food in the building, or prepares food.

21

00:01:15,940 --> 00:01:19,260

Today you have places where you have fast food.

21

00:01:16,030 --> 00:01:19,260

Today you have places where you have fast food,

22

00:01:19,430 --> 00:01:23,380

You have 15 cooks and waitresses and all that.

22

00:01:19,430 --> 00:01:23,380

you have 15 cooks and waitresses and all that.

23

00:01:23,540 --> 00:01:26,890

In the future, you'll be able to extrude the food

23

00:01:23,540 --> 00:01:26,890

In the future, you'll be able to extrude the food

24

00:01:27,040 --> 00:01:31,060

very rapidly with no people at all. You don't need people.

24

00:01:27,040 --> 00:01:31,060

very rapidly with no people at all. You don't need people.

25

00:01:31,200 --> 00:01:33,460

You don't need waitresses, cooks, and all.

25

00:01:31,200 --> 00:01:33,460

You don't need waitresses, cooks, and all.

26

00:01:33,660 --> 00:01:36,160

What you need is a food handled,

26

00:01:33,660 --> 00:01:36,160

What you need is the food handled

27

00:01:36,300 --> 00:01:40,380

the way the food is handled by people, only much faster.

27

00:01:36,300 --> 00:01:40,380

the way the food is handled by people, only much faster.

28

00:01:40,600 --> 00:01:43,490

28

00:01:40,640 --> 00:01:43,490

Remember, it takes a doctor time to diagnose.

Remember, it takes a doctor time to diagnose.

29

00:01:43,690 --> 00:01:48,370

He's got to study the symbols and tell what the problem might be.

29

00:01:43,690 --> 00:01:48,370

He's got to study the symbols and tell what the problem might be.

30

00:01:48,690 --> 00:01:52,300

Scanning by machine is very fast.

30

00:01:48,690 --> 00:01:52,300

And scanning by machine is very fast.

31

00:01:52,540 --> 00:01:56,960

So I can't tell you exactly what hospitals will look like

31

00:01:52,540 --> 00:01:56,960

So I can't tell you exactly what hospitals will look like

32

00:01:57,160 --> 00:01:59,450

or what the cities will look like.

32

00:01:57,160 --> 00:01:59,450

or what the cities will look like.

33

00:01:59,590 --> 00:02:03,240

Although we know that beds would be very similar

33

00:01:59,590 --> 00:02:03,240

Although we know that beds would be very similar

34

00:02:03,500 --> 00:02:05,700

only they'd be more flexible.

34

00:02:03,500 --> 00:02:05,700

only they'd be more flexible.

35

00:02:06,970 --> 00:02:10,380

Not only that, but the bed will have monitors built-in.

35

00:02:07,030 --> 00:02:10,380

Not only that, the bed will have monitors built-in.

36

00:02:10,550 --> 00:02:15,700

So that if there's any kind of emergency, the bed can stimulate you

36

00:02:10,550 --> 00:02:15,700

So that if there's any kind of emergency, the bed can stimulate you

37

00:02:16,130 --> 00:02:21,700

37

00:02:16,130 --> 00:02:21,700

out of that emergency and call for help without
you even knowing it.

38

00:02:21,860 --> 00:02:25,550

If you have palpitations or an unusual physical
condition

39

00:02:25,700 --> 00:02:28,380

while you're asleep, the staff would arrive.

40

00:02:29,200 --> 00:02:32,990

So when I say total enclosure I mean

41

00:02:33,340 --> 00:02:38,340

methods for dealing with all problems that humans
might have.

42

00:02:39,280 --> 00:02:42,490

Does that mean there won't be a kitchen in every
home?

43

00:02:42,750 --> 00:02:45,360

There will be, during the transition.

44

00:02:45,510 --> 00:02:49,330

Until we realize, instead of having 5,000 homes

45

00:02:49,580 --> 00:02:53,420

with 5,000 sinks and 5,000 ovens

46

00:02:53,610 --> 00:02:57,620

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you even knowing it.

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So when I say "total enclosure" I mean

41

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methods for dealing with all problems that humans
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42

00:02:39,280 --> 00:02:42,490

Now does that mean there won't be a kitchen in
every home?

43

00:02:42,750 --> 00:02:45,360

There will be, during the transition.

44

00:02:45,510 --> 00:02:49,440

Until we realize, instead of having 5,000 homes

45

00:02:49,580 --> 00:02:53,420

with 5,000 sinks and 5,000 ovens

46

00:02:53,610 --> 00:02:57,620

and refrigerators, you have gigantic refrigerators and refrigerators, you have gigantic refrigerators

47

00:02:57,780 --> 00:03:01,840

and a food preparation system. Do you understand that?

47

00:02:57,780 --> 00:03:01,840

and a food preparation system. Do you understand that?

48

00:03:02,020 --> 00:03:04,300

It will not be like it is today.

48

00:03:02,020 --> 00:03:04,300

It will not be like it is today.

49

00:03:04,450 --> 00:03:07,780

When people look at these cities that I drew up here

49

00:03:04,450 --> 00:03:07,780

So when people look at these cities that I drew up here

50

00:03:07,920 --> 00:03:10,730

they picture conventional approaches

50

00:03:07,920 --> 00:03:10,730

they picture conventional approaches:

51

00:03:10,870 --> 00:03:14,910

a bedroom, a kitchen, a dining room, a dining area

51

00:03:10,870 --> 00:03:15,150

a bedroom, a kitchen, a dining room, a dining area,

52

00:03:15,320 --> 00:03:17,920

because you have people over for lunch:

52

00:03:15,320 --> 00:03:17,920

because you have people over for lunch;

53

00:03:18,060 --> 00:03:21,110

the same value systems we have today.

53

00:03:18,060 --> 00:03:21,110

the same value systems we have today.

54

00:03:21,490 --> 00:03:25,480

I would say that this is the way the future is going.

54

00:03:21,570 --> 00:03:25,480

So I would say that, this is where the future is going.

55

00:03:25,900 --> 00:03:30,330

55

00:03:25,990 --> 00:03:30,330

And the future design would depend on how far in
the future [we are]

And the future design would depend on how far
into the future [we are]

56
00:03:30,500 --> 00:03:33,430
and how far technology has gone.

56
00:03:30,500 --> 00:03:33,430
and how far technology has gone.

57
00:03:33,570 --> 00:03:36,590
When they can read symbols and make diagnosis

57
00:03:33,570 --> 00:03:36,590
When they can read symbols and make diagnosis,

58
00:03:36,820 --> 00:03:41,130
when a machine can do drafting instead of
thousands of draftsmen.

58
00:03:36,820 --> 00:03:41,330
when a machine can do drafting instead of
thousands of draftsmen...

59
00:03:41,480 --> 00:03:45,090
A machine can do drafting much faster than man.

59
00:03:41,480 --> 00:03:45,090
A machine can do drafting much faster than man.

60
00:03:45,290 --> 00:03:47,330
It can scan those lines in

60
00:03:45,290 --> 00:03:47,330
It can scan those lines in

61
00:03:47,480 --> 00:03:51,500
if you put in the specifications of what you want.

61
00:03:47,480 --> 00:03:51,500
if you put in the specifications of what you want.

62
00:03:51,640 --> 00:03:56,750
If you're on a hospital, to house a thousand
people

62
00:03:51,640 --> 00:03:56,750
If you want a hospital, to house a thousand
people,

63
00:03:57,140 --> 00:03:59,690
with the most economical structures.

63
00:03:57,140 --> 00:03:59,690
with the most economical structures,

64
00:04:00,180 --> 00:04:04,820
which have built-in heating and cooling systems

64
00:04:00,180 --> 00:04:04,820
which have built-in heating and cooling systems,

65
00:04:05,030 --> 00:04:08,600
all that can be stored in information systems.

66
00:04:09,030 --> 00:04:13,530

The building can probably be forthcoming in minutes

67
00:04:13,670 --> 00:04:16,990

rather hours that it takes draftsmen to do it.

68
00:04:17,490 --> 00:04:23,030

The amount of space allotted for things will not be the same.

69
00:04:23,470 --> 00:04:25,990
If you took an industrial area

70
00:04:26,140 --> 00:04:28,280
with movable walls

71
00:04:28,760 --> 00:04:31,440
and if some manufacturing process needed

72
00:04:31,790 --> 00:04:37,020
say, the production of 100 aerocars a day

73
00:04:37,260 --> 00:04:39,450
that space could be assembled.

65
00:04:05,030 --> 00:04:08,600
all that can be stored in information systems.

66
00:04:09,030 --> 00:04:13,530

And the building can probably be forthcoming in minutes

67
00:04:13,670 --> 00:04:16,990

than rather hours that it takes draftsmen to do it.

68
00:04:17,490 --> 00:04:21,640

And the amount of draftsmen and the amount of space allotted for things

69
00:04:21,790 --> 00:04:25,990
will not be the same. If you took an industrial area

70
00:04:26,140 --> 00:04:28,280
with movable walls

71
00:04:28,760 --> 00:04:31,440
and if some manufacturing process needed

72
00:04:31,790 --> 00:04:37,020
say, the production of 100 aerocars a day,

73
00:04:37,260 --> 00:04:39,450
that space could be assembled.

74

00:04:39,800 --> 00:04:43,510

The new walls could move to accommodate the production methods.

74

00:04:39,800 --> 00:04:43,510

The movable walls could move to accommodate the production methods.

75

00:04:43,890 --> 00:04:47,010

If the production methods are faster two years from now

75

00:04:43,890 --> 00:04:47,010

If the production methods are faster two years from now

76

00:04:47,250 --> 00:04:50,060

the walls come together, the factory is smaller

76

00:04:47,250 --> 00:04:50,060

the walls come together, the factory is smaller

77

00:04:50,200 --> 00:04:52,260

and the production rate is higher.

77

00:04:50,200 --> 00:04:52,260

and the production rate is higher.

78

00:04:52,450 --> 00:04:56,540

So whatever you have today: ovens, kitchens all those things

78

00:04:52,450 --> 00:04:56,540

So whatever you have today: ovens, kitchens; all those things

79

00:04:56,690 --> 00:05:00,150

will be smaller in the future, produce things much faster

79

00:04:56,690 --> 00:05:00,150

will be smaller in the future, produce things much faster

80

00:05:00,300 --> 00:05:02,980

and not occupy the same space.

80

00:05:00,300 --> 00:05:02,980

and not occupy the same space.

81

00:05:03,130 --> 00:05:06,780

So when you say "how much space do you need for hospitals?"

81

00:05:03,130 --> 00:05:06,780

So when you say "How much space do you need for hospitals?"

82

00:05:07,080 --> 00:05:10,300

82

00:05:07,080 --> 00:05:10,300

It depends: if people eat nutritious food, do exercise

It depends: If people eat nutritious food, do exercise,

83
00:05:10,490 --> 00:05:12,690
you don't have many hospitals.

83
00:05:10,490 --> 00:05:12,690
you don't have many hospitals.

84
00:05:12,850 --> 00:05:16,980
So I can't tell you exactly what the hospital space will be

84
00:05:12,850 --> 00:05:16,980
So I can't tell you exactly what the hospital space will be

85
00:05:17,140 --> 00:05:19,720
or how technical they will be.

85
00:05:17,140 --> 00:05:19,720
or how technical they will be.

86
00:05:19,920 --> 00:05:21,960
I can only say this:

86
00:05:19,920 --> 00:05:21,960
I can only say this:

87
00:05:22,100 --> 00:05:27,580
the future will occupy much less space for the same turnout.

87
00:05:22,100 --> 00:05:27,580
the future will occupy much less space for the same turnout.

88
00:05:27,950 --> 00:05:32,810
That's the message. Now if you try to design a city

88
00:05:27,950 --> 00:05:32,810
And that's the message. Now if you try to design a city

89
00:05:33,040 --> 00:05:38,820
with a hundred drafting tables in it, or 30 machines

89
00:05:33,040 --> 00:05:38,820
with a hundred drafting tables in it, or ... 30 machines

90
00:05:39,220 --> 00:05:41,370
that is with today's thinking.

90
00:05:39,220 --> 00:05:41,370
that is with today's thinking.

91

91

00:05:41,530 --> 00:05:45,290

And the building will get... The zone that
creates that

00:05:41,530 --> 00:05:45,290

And the building will get-... The zone that
creates that

92

00:05:45,430 --> 00:05:47,980

will be smaller and have less people.

92

00:05:45,430 --> 00:05:47,980

will be smaller and have less people.

93

00:05:48,500 --> 00:05:50,820

Now, instead of having generalists

93

00:05:48,500 --> 00:05:50,820

Now, instead of having generalists,

94

00:05:50,970 --> 00:05:53,360

where the doctor is a generalist and he knows

94

00:05:50,970 --> 00:05:53,360

where the doctor is a generalist and he knows

95

00:05:53,510 --> 00:05:57,070

everything from neurology to other physical
problems

95

00:05:53,510 --> 00:05:57,070

everything from neurology to other physical
problems,

96

00:05:57,220 --> 00:06:00,480

it's much easier to have computers with that
information.

96

00:05:57,220 --> 00:06:00,480

it's much easier to have computers with that
information.

97

00:06:00,730 --> 00:06:05,330

not only do they scan you and record in symbolic
logic

97

00:06:00,730 --> 00:06:05,330

Not only do they scan you and record it in
symbolic logic

98

00:06:05,690 --> 00:06:08,630

what the condition is, it is then read.

98

00:06:05,690 --> 00:06:08,630

what the condition is, it is then read.

99

00:06:08,780 --> 00:06:12,980

Instead of doctors, it's read by a machine, very
rapidly

99

00:06:08,780 --> 00:06:12,980

Instead of doctors, it's read by a machine, very
rapidly

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100	100
00:06:13,190 --> 00:06:17,460	00:06:13,190 --> 00:06:17,460
and then the appropriate action can be taken by a machine.	and then the appropriate action can be taken by a machine.
101	101
00:06:17,610 --> 00:06:20,640	00:06:17,610 --> 00:06:20,640
If it's surgery, or whatever else is required.	If it's surgery, or whatever else is required.
102	102
00:06:21,050 --> 00:06:24,580	00:06:21,050 --> 00:06:24,580
So, to sit down and design a surgical system	So, to sit down and design a surgical system
103	103
00:06:24,730 --> 00:06:28,610	00:06:24,730 --> 00:06:28,610
based on today's values and today's methodology	based on today's values and today's methodology
104	104
00:06:28,760 --> 00:06:31,580	00:06:28,760 --> 00:06:31,580
would be inappropriate for the future.	would be inappropriate for the future.
105	105
00:06:31,820 --> 00:06:35,540	00:06:31,820 --> 00:06:35,540
So a city of that size will do ten times the work	So a city of that size will do ten times the work
106	106
00:06:35,730 --> 00:06:38,810	00:06:35,730 --> 00:06:38,810
that a city today of the same size does.	that a city today of the same size does.
107	107
00:06:39,060 --> 00:06:41,950	00:06:39,060 --> 00:06:41,950
That's why I can't give you an exact description	That's why I can't give you an exact description
108	108
00:06:42,090 --> 00:06:47,130	00:06:42,090 --> 00:06:47,130
of what hospitals will be like; only an overview, in general.	of what hospitals will be like; only an overview, in general.
109	109
00:06:47,960 --> 00:06:50,940	00:06:47,960 --> 00:06:50,940

A ship is a total enclosure system.

A ship is a total enclosure system.

110

00:06:51,100 --> 00:06:54,720

A passenger liner that has a thousand passengers

110

00:06:51,100 --> 00:06:54,720

A passenger liner that has a thousand passengers

111

00:06:54,970 --> 00:06:59,220

has hospital equipment, cooking, dining areas,
sleeping areas

111

00:06:54,970 --> 00:06:59,220

has hospital equipment, cooking, dining areas,
sleeping areas,

112

00:06:59,400 --> 00:07:03,670

air conditioning, a children's room and nurses
takes care of the children

112

00:06:59,400 --> 00:07:03,670

air conditioned, children's room, and nurses take
care of children.

113

00:07:03,860 --> 00:07:07,820

It has everything that a thousand passengers may
need.

113

00:07:03,860 --> 00:07:07,820

It has everything that a thousand passengers may
need.

114

00:07:08,350 --> 00:07:13,480

Do you understand that? A ship is almost a total
enclosure system.

114

00:07:08,350 --> 00:07:13,480

Do you understand that? A ship is almost a total
enclosure system.

115

00:07:13,680 --> 00:07:16,390

It doesn't generate its own energy.

115

00:07:13,680 --> 00:07:16,390

It doesn't generate its own energy.

116

00:07:16,550 --> 00:07:19,490

It uses machines, diesel engines

116

00:07:16,550 --> 00:07:19,490

It uses machines, diesel engines

117

00:07:19,680 --> 00:07:23,180

to generate electricity to operate the generators.

117

00:07:19,680 --> 00:07:23,180

to generate electricity to operate the generators.

118

00:07:23,340 --> 00:07:26,200

118

00:07:23,340 --> 00:07:26,200

But in the future, the surface of the ship

But in the future, the surface of the ship

119

00:07:26,350 --> 00:07:30,090

will supply the energy needed. The wave power.

119

00:07:26,350 --> 00:07:30,090

will supply the energy needed. The wave power.

120

00:07:30,260 --> 00:07:33,430

And the surrounding area will supply that ship

120

00:07:30,260 --> 00:07:33,430

And the surrounding area will supply that ship

121

00:07:33,570 --> 00:07:37,940

with the energy it needs rather than require input.

121

00:07:33,570 --> 00:07:37,940

with the energy it needs rather than require input.

122

00:07:38,210 --> 00:07:41,530

Most of the buildings that I draw that you see there

122

00:07:38,210 --> 00:07:41,530

Now most of the buildings that I draw that you see there

123

00:07:41,670 --> 00:07:46,240

can be put in the cities of the future, on the outer perimeter.

123

00:07:41,670 --> 00:07:46,240

can be put in the cities of the future, on the outer perimeter.

124

00:07:46,480 --> 00:07:51,020

You need not... You can use the same basic drawings that I have today.

124

00:07:46,480 --> 00:07:51,020

You need not... you can use the same basic drawings that I have today.

125

00:07:51,410 --> 00:07:55,020

But trying to fill in the buildings- as to what's in them -

125

00:07:51,410 --> 00:07:55,020

But trying to fill in the buildings, as to what's in them,

126

00:07:55,170 --> 00:07:58,650

I'd rather not divulge that specific information.

126

00:07:55,170 --> 00:07:58,650

I'd rather not divulge that specific information.

127

127

sco-Total_Enclosure_System-June_30__2011_1_eng.srt	-	Jacque_Fresco-Total_Enclosure_System-June_30__2011
00:07:59,510 --> 00:08:02,430		00:07:59,510 --> 00:08:02,430
Now, I can go into specifics		Now, I can go into specifics
128		128
00:08:02,560 --> 00:08:05,970		00:08:02,590 --> 00:08:06,400
but they would only serve temporarily.		but they would only serve temporarily.
129		129
00:08:06,740 --> 00:08:09,880		00:08:06,740 --> 00:08:09,880
A method of delivery of people or moving people		The method of delivery of people or moving people
130		130
00:08:10,040 --> 00:08:12,770		00:08:10,040 --> 00:08:12,770
depends on the technology of the future		depends on the technology of the future
131		131
00:08:12,910 --> 00:08:17,590		00:08:12,910 --> 00:08:17,590
and it depends on how easy it is to move people.		and it depends on how easy it is to move people.
132		132
00:08:18,100 --> 00:08:22,150		00:08:18,100 --> 00:08:22,150
But if you have total enclosure systems, it means each system		But if you have total enclosure systems, it means each system
133		133
00:08:22,300 --> 00:08:25,890		00:08:22,300 --> 00:08:25,890
is self-operating. It doesn't depend on central power.		is self-operating. It doesn't depend on central power.
134		134
00:08:26,040 --> 00:08:29,210		00:08:26,040 --> 00:08:29,210
But they're all connected to the central computer		But they're all connected to the central computer
135		135
00:08:29,360 --> 00:08:32,700		00:08:29,360 --> 00:08:32,700
and they're connected to all events in other cities.		and they're connected to all events in other cities.
136		136
00:08:33,040 --> 00:08:36,270		00:08:33,040 --> 00:08:36,270

If the city system mechanisms fail

137

00:08:36,410 --> 00:08:38,540

other mechanisms take over

138

00:08:38,680 --> 00:08:41,720

and notify the appropriate people

139

00:08:41,870 --> 00:08:46,370

or the appropriate machines to carry out a given task.

140

00:08:47,930 --> 00:08:52,490

Now they took all the electrocardiograms of me today

141

00:08:52,650 --> 00:08:54,910

and then it goes to the cardiologist.

142

00:08:55,060 --> 00:08:58,310

The blood test is divided into different systems

143

00:08:58,460 --> 00:09:01,630

where people with microscopes analyze the blood.

144

00:09:01,780 --> 00:09:05,450

Whatever they see, they draw conclusions

145

00:09:06,110 --> 00:09:11,700

out of its symbolic rather than visual, they draw

If the city system mechanisms fail

137

00:08:36,410 --> 00:08:38,540

other mechanisms take over

138

00:08:38,680 --> 00:08:41,720

and notify the appropriate people

139

00:08:41,870 --> 00:08:46,370

or the appropriate machines to carry out a given task.

140

00:08:47,930 --> 00:08:52,490

Now they took all kinds of cardiograms of me, today,

141

00:08:52,650 --> 00:08:54,910

and then it goes to the cardiologist.

142

00:08:55,060 --> 00:08:58,310

And the blood test is divided into different systems

143

00:08:58,460 --> 00:09:01,630

where people with microscopes analyze the blood.

144

00:09:01,780 --> 00:09:05,450

Whatever they see, they draw conclusions.

145

00:09:06,110 --> 00:09:11,700

And if it's symbolic rather than visual, they

their conclusions.

draw conclusions.

146
00:09:12,150 --> 00:09:16,100
Machines can draw the same conclusions and many more.

146
00:09:12,150 --> 00:09:16,100
Machines can draw the same conclusions and many more.

147
00:09:16,240 --> 00:09:19,190
(Roxanne) They've had experiments where they've given the same blood

147
00:09:16,240 --> 00:09:19,190
(Roxanne) They've had experiments where they've given the same blood

148
00:09:19,340 --> 00:09:22,590
to many different labs and they drew up different conclusions.

148
00:09:19,340 --> 00:09:22,590
to many different labs and they drew up different conclusions.

149
00:09:22,730 --> 00:09:28,040
- I know, because their equipment varies in sensitivity, sometimes.

149
00:09:22,730 --> 00:09:28,040
- I know, because their equipment varies in sensitivity, sometimes.

150
00:09:28,370 --> 00:09:32,790
And in that time period, the temperature and other variables

150
00:09:28,370 --> 00:09:32,790
And then the time period, and the temperature and other variables

151
00:09:32,990 --> 00:09:37,120
which are not controlled. And also the profit motive

151
00:09:32,990 --> 00:09:37,120
which are not controlled. And also the profit motive

152
00:09:37,530 --> 00:09:41,640
affects how late their equipment is, how modern.

152
00:09:37,530 --> 00:09:41,640
affects how late their equipment is, how modern.

153
00:09:42,250 --> 00:09:45,390
And people are more concerned with how many customers

153
00:09:42,250 --> 00:09:45,390
And people are more concerned with how many customers,

154 00:09:45,660 --> 00:09:48,090 how many clients they've had.	154 00:09:45,660 --> 00:09:48,090 about how many clients they've had.
155 00:09:48,610 --> 00:09:53,970 The future concerns are optimizing human performance	155 00:09:48,610 --> 00:09:53,970 The future concern is: optimizing human performance,
156 00:09:54,190 --> 00:09:58,110 which is very different, or equipment performance.	156 00:09:54,190 --> 00:09:58,110 which is very different, or equipment performance.
157 00:09:58,390 --> 00:10:00,970 Optimal, making it the optimal.	157 00:09:58,390 --> 00:10:00,970 Optimal, making it date optimal.
158 00:10:01,450 --> 00:10:04,560 All information is available and no patents	158 00:10:01,450 --> 00:10:04,560 And all information's available and no patents,
159 00:10:04,780 --> 00:10:08,870 so you can use the latest information and design your machinery.	159 00:10:04,780 --> 00:10:08,870 so you can use the latest information in designing your machinery.
160 00:10:09,120 --> 00:10:13,150 And you can correspond with people who know more about it than you do	160 00:10:09,120 --> 00:10:13,150 And you can correspond with people that know more about it than you do
161 00:10:13,290 --> 00:10:18,120 or you can correspond with machines that know more about it than you do.	161 00:10:13,290 --> 00:10:18,120 or you can correspond with machines that know more about it than you do.
162 00:10:18,400 --> 00:10:21,840 I can't say. It depends on when it's built.	162 00:10:18,400 --> 00:10:21,840 I can't say. It depends on when it's built.

sco-Total_Enclosure_System-June_30__2011_1_eng.srt - Jacque_Fresco-Total_Enclosure_System-June_30__2011

163

00:10:22,640 --> 00:10:25,670

"Total Enclosure Systems"from Series 4 (DVD or
CD); Lecture Series 2010-2011

163

00:10:22,640 --> 00:10:25,670

"Total Enclosure Systems" from Series 4 (DVD or
CD); Lecture Series 2010-2011