

# SMARTEX

Detection of defective textile production

Industrial IoT | Industry 4.0 | Computer Vision | AI

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Problem:

# Textile Defects

~3% of total production



Companies  
Reduced margins



Environment  
defects = waste

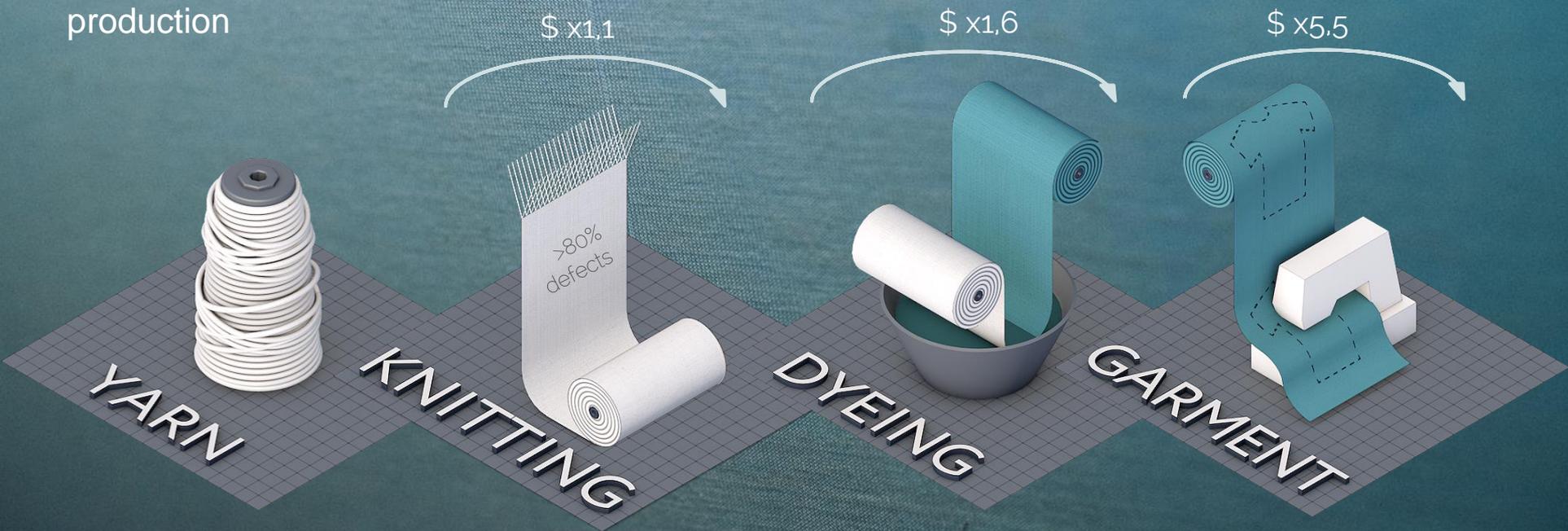


Retail Prices  
Affected by defects

Textile Manufacturing Process

# \$ 3 Trillion

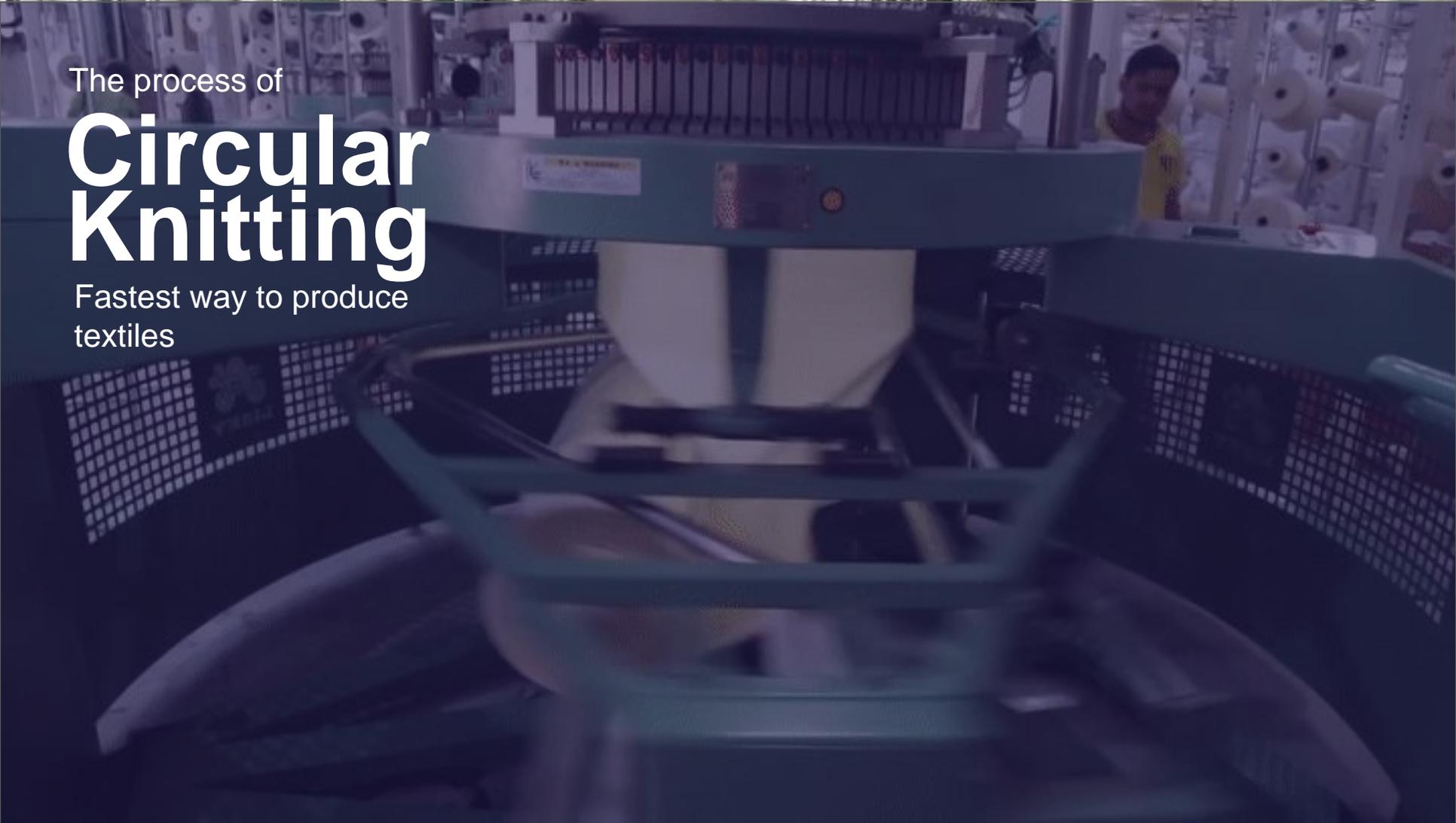
up to 5% defective  
production



The process of

# Circular Knitting

Fastest way to produce textiles



Current Solution:

# Human Inspection

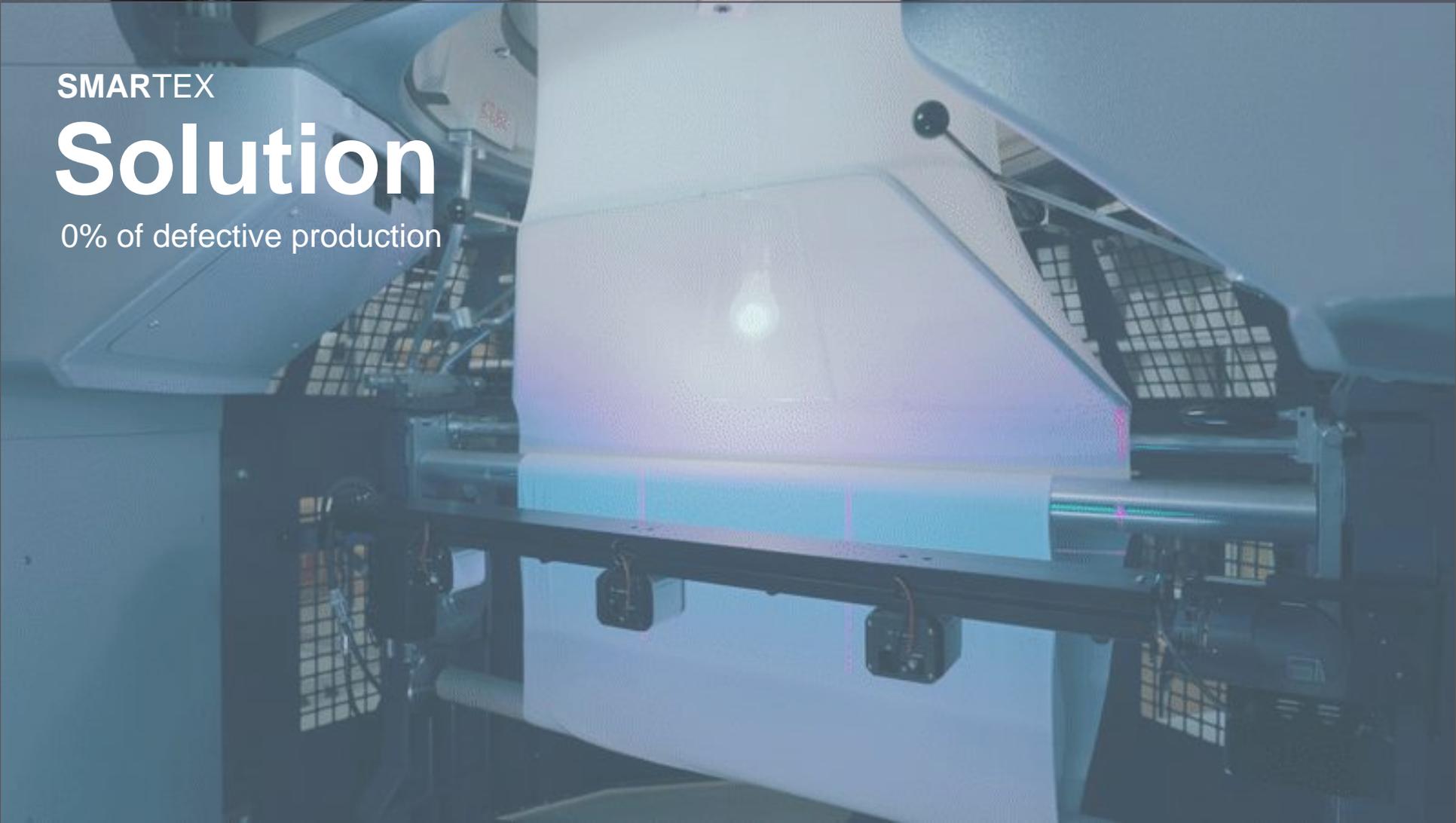
After production



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# Solution

0% of defective production



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# Business Model

Product & Services

**Installation  
fee**



**Monthly  
fee**



Less  
workers



No textile  
waste

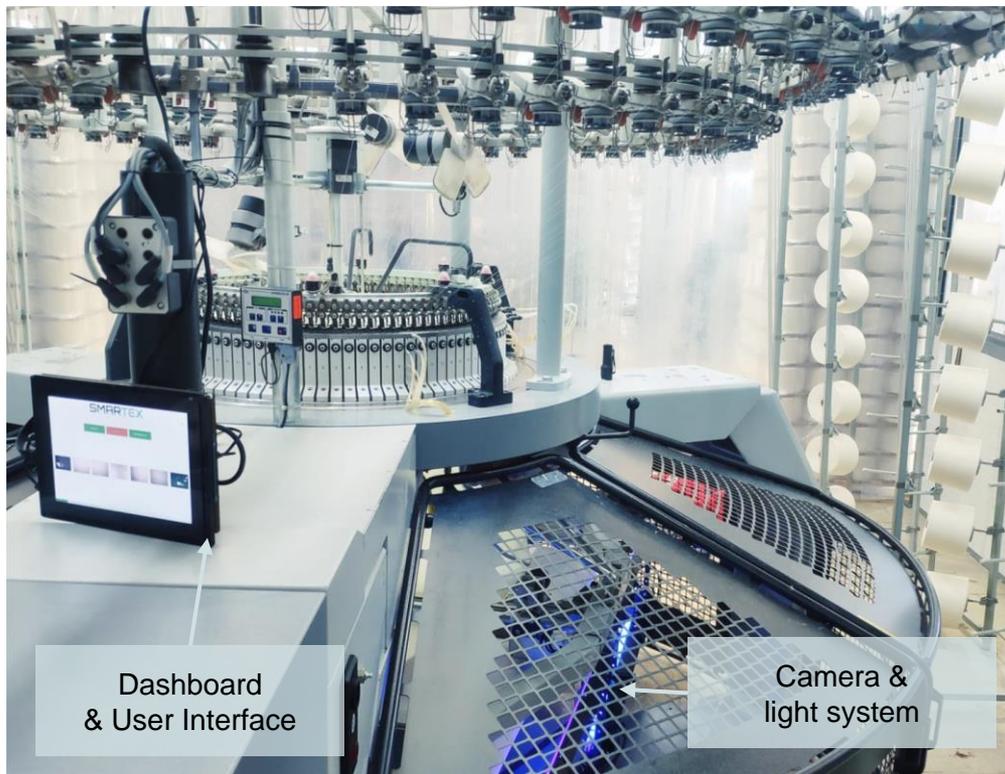


Production  
time

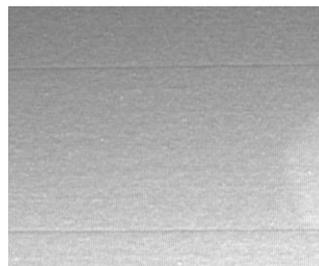
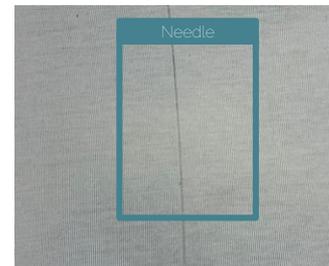
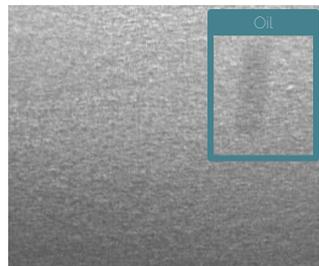
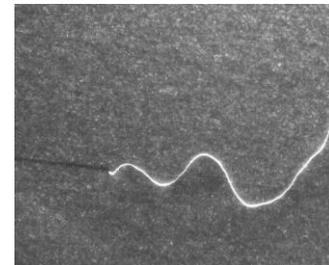


# Case Study

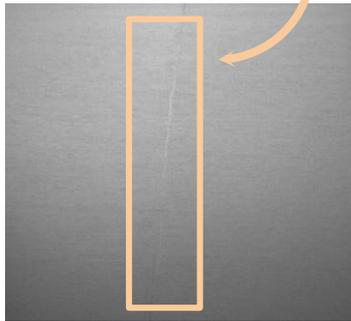
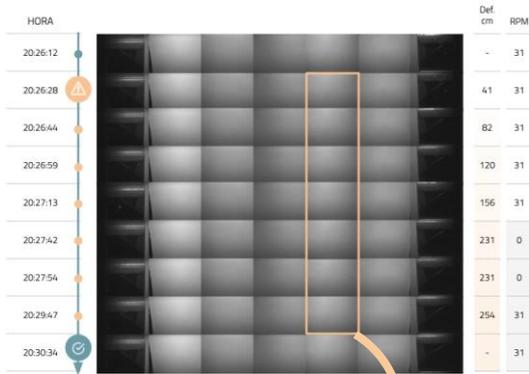
T I N T E X X NATURALLY  
ADVANCED



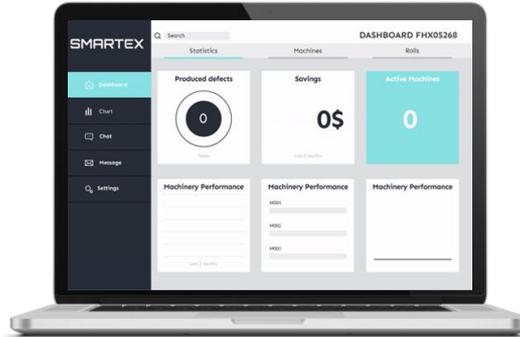
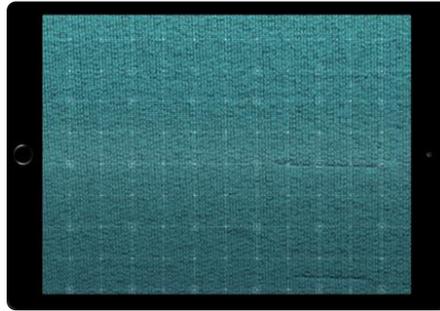
## Digital Assets: Images & Data



## Digital Assets: Production Images & Data

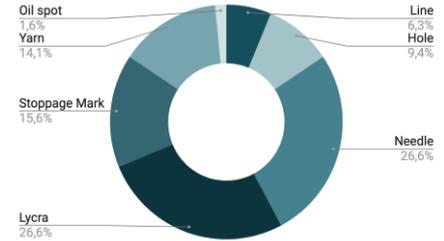


## Online tools & real time monitoring

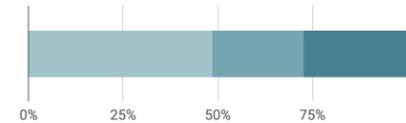


## Statistics

### Types of produced defects



### Defects per shift



1 month & 1 machine results:  
(average factory has 50-200 machines)



Raw material savings **930€** / month



Saved production time **22 h** / month



Weight of defective fabrics **132 kg** / month



Water savings **21 613 L** / month



Machinery energy **1 188 kWh** / month



Reduction of CO<sub>2</sub> emission **228 kg** / month

A photograph of three men standing in a factory or industrial setting. They are positioned in front of a large, complex piece of machinery. The man on the left is wearing a black t-shirt with 'SMARTEX' on it and glasses. The man in the center is wearing a white t-shirt and is sitting on a metal structure. The man on the right is wearing a black t-shirt with 'SMARTEX' on it, glasses, and a watch. The background shows various industrial components and structures.

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Hope to hear from you soon!

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