

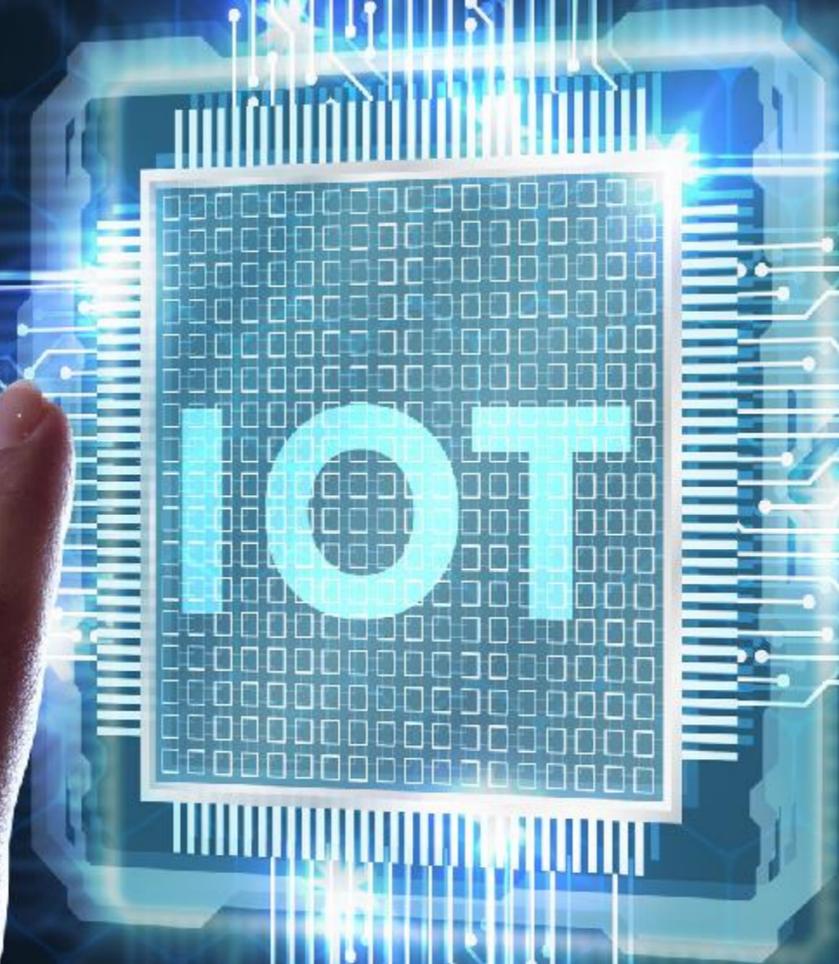
CITTA'S

SYSTEM AUTOMATION

for HINDUSTAN RMC

Hindustan RMC
INFRASTRUCTURE SOLUTION

citta





SUMMARY OF CONTENTS

OUR MAIN TOPICS TODAY

- Process Automation
- Automated RMC Plants
- Process Flow & Control
- Potential Benefits to Redwop
- Commitments from Citta
- Q & A

FACTS AND FIGURES

60%

OF GLOBAL MANUFACTURERS

use analytics data recorded from connected devices to analyze processes and identify optimization possibilities in 2018 alone





PROCESS AUTOMATION USING



INTERNET OF THINGS





AUTOMATED RMC PLANTS: RAW MATERIAL HANDLING (Volumetric Product fillers)

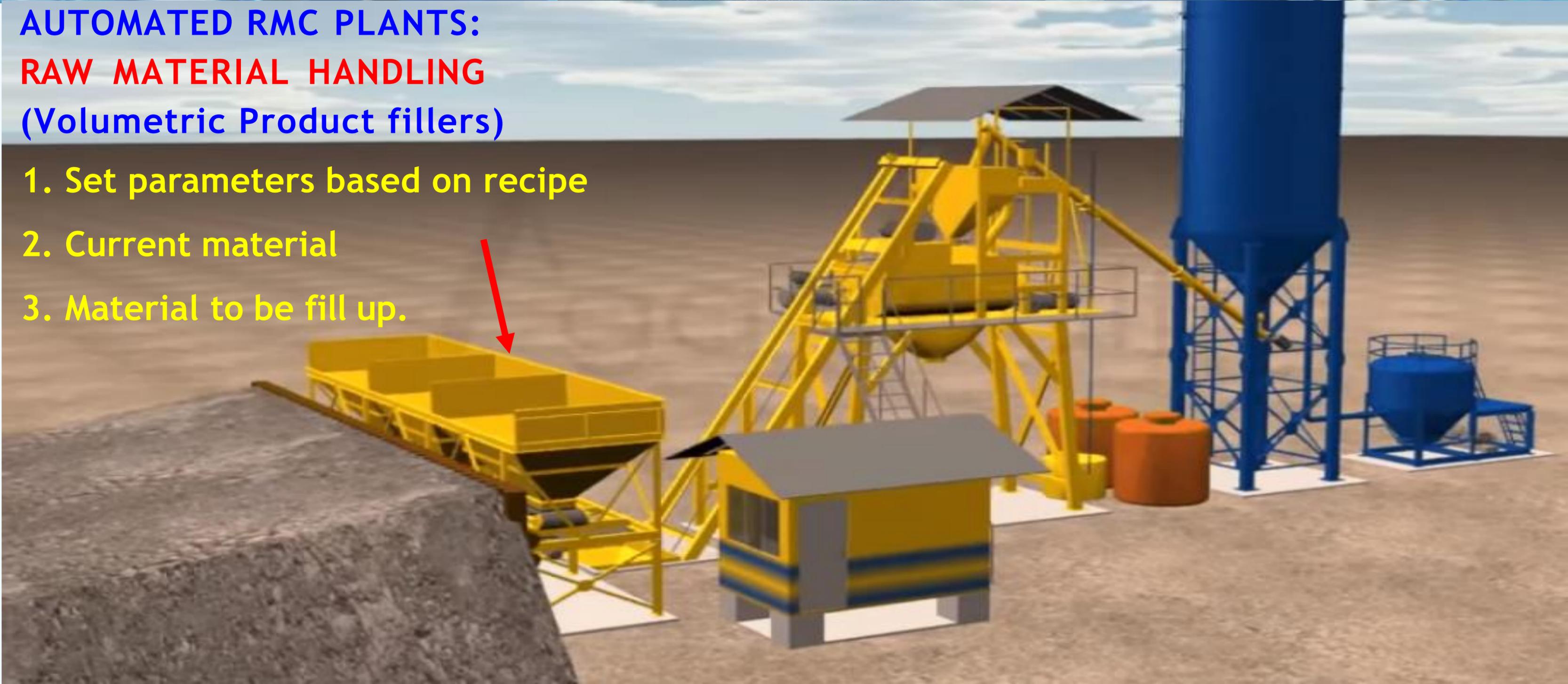
IOT Based PA

1. Automatic start & stop control using mobile/PC.
 2. Complete remote monitoring
 3. Automatic Batch number allocation
 4. Material handling control & monitoring
(Current Status, Add Material, notifications)
1. Auto-cleaning facility
 2. ERP Integration.
 3. Report generation filters
 4. Data logging



**AUTOMATED RMC PLANTS:
RAW MATERIAL HANDLING
(Volumetric Product fillers)**

- 1. Set parameters based on recipe
- 2. Current material
- 3. Material to be fill up.

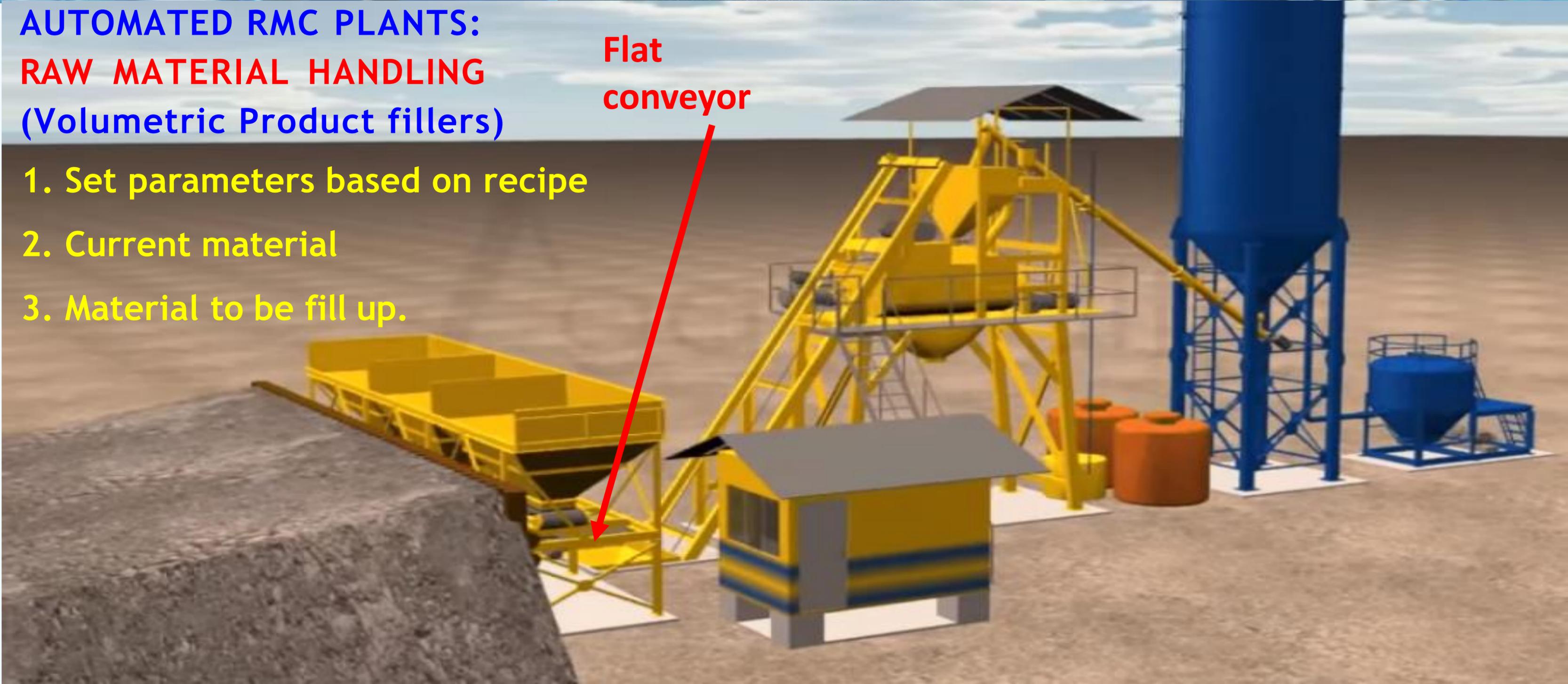




**AUTOMATED RMC PLANTS:
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**Flat
conveyor**

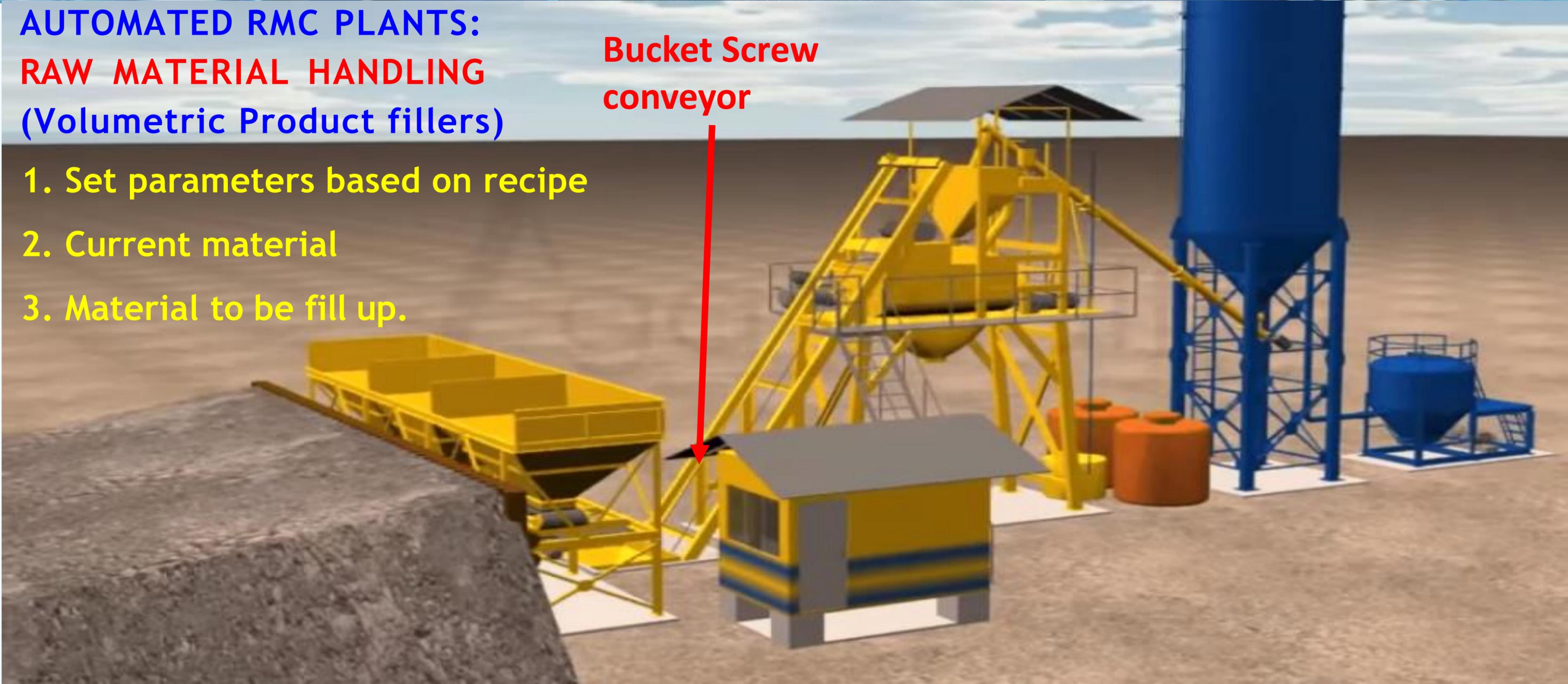




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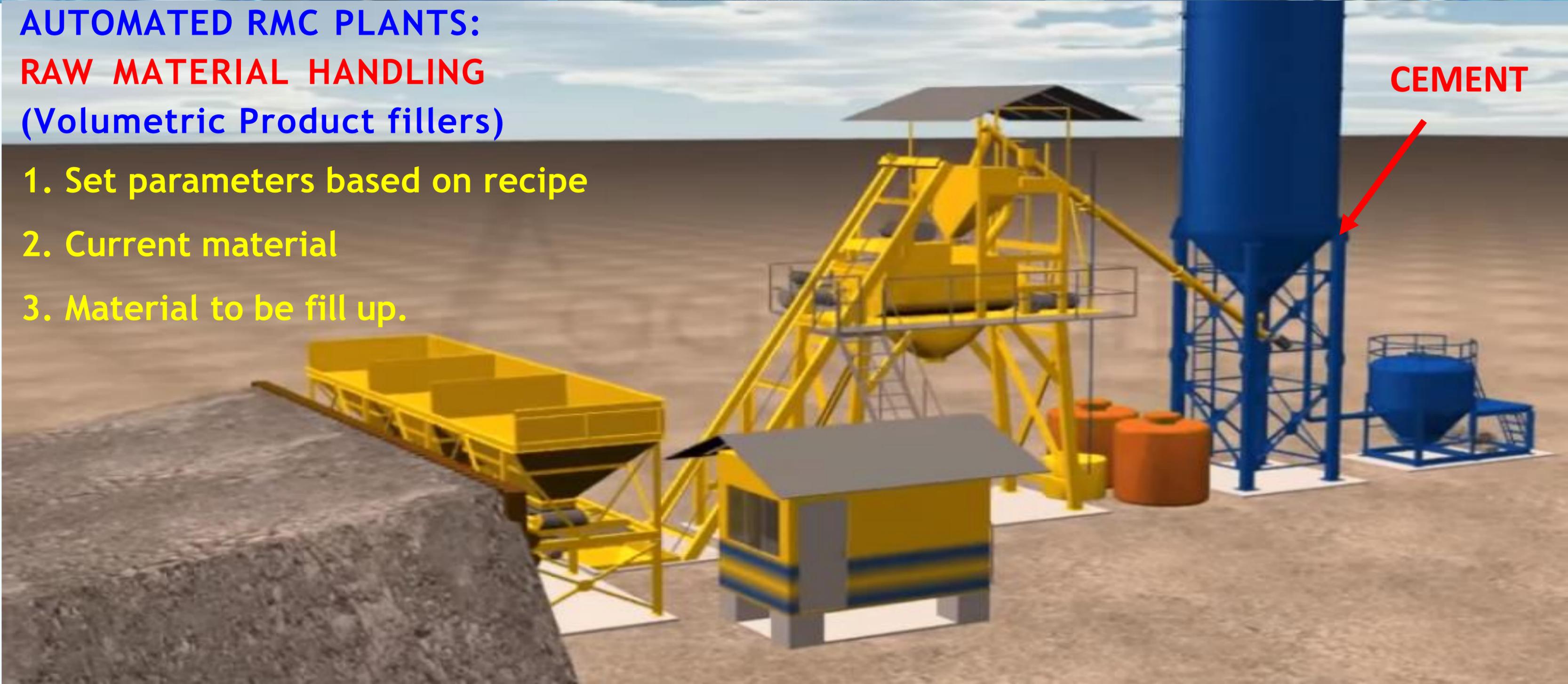
Bucket Screw conveyor





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AUTOMATED RMC PLANTS:
RAW MATERIAL MIXING
(Volumetric Product fillers)

- 1. Set parameters based on recipe
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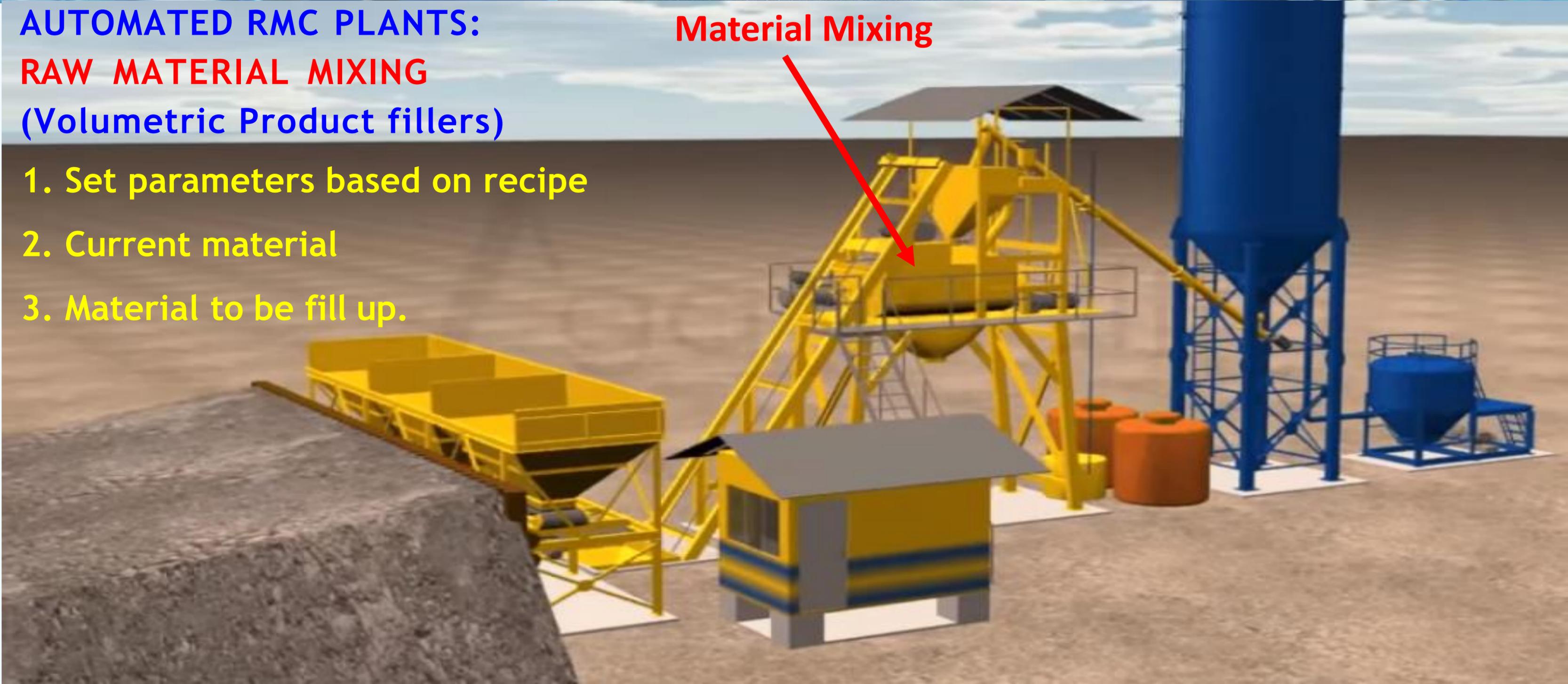
**Water &
Additive tanks**

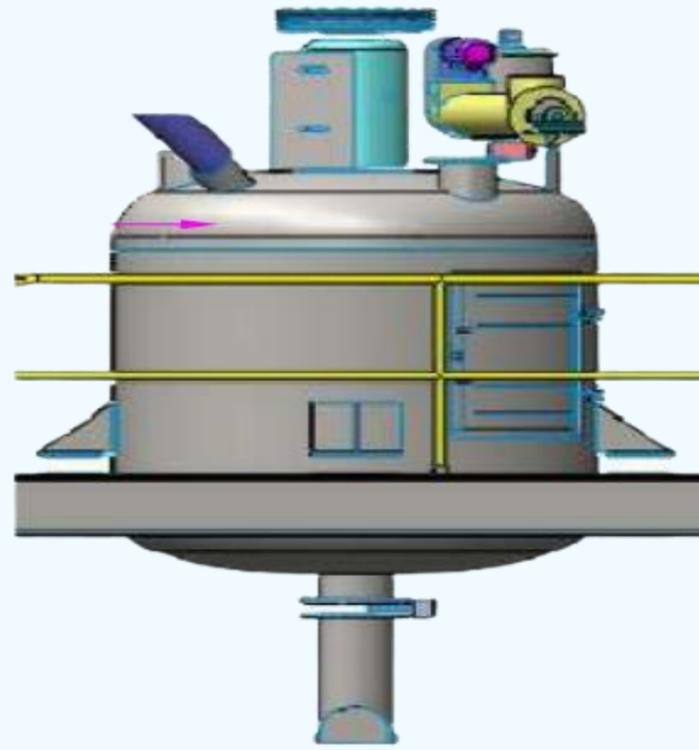


AUTOMATED RMC PLANTS:
RAW MATERIAL MIXING
(Volumetric Product fillers)

- 1. Set parameters based on recipe
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Material Mixing





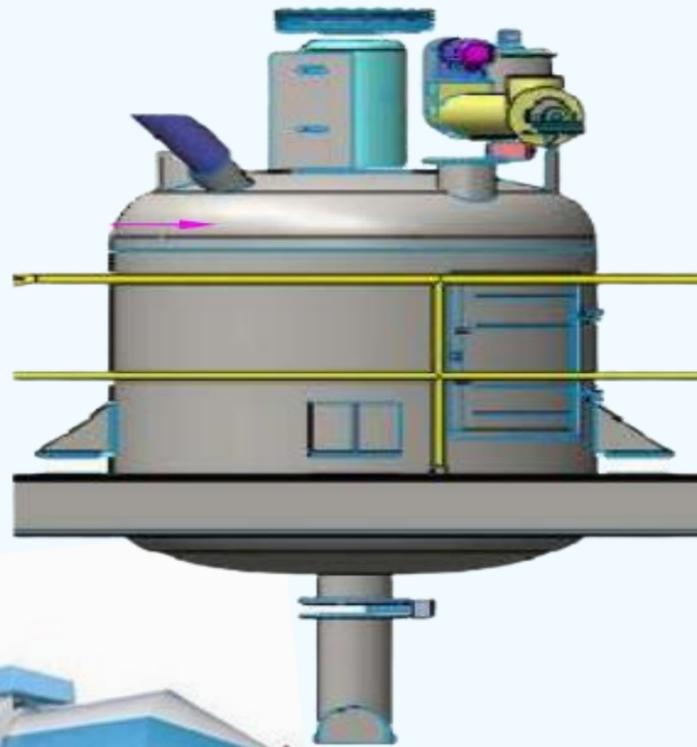
AUTOMATED INDUSTRIAL PROCESS PLANTS: MATERIAL MIXING

- 1. Automatic material mixing for each batch**
- 2. Set time & speed**



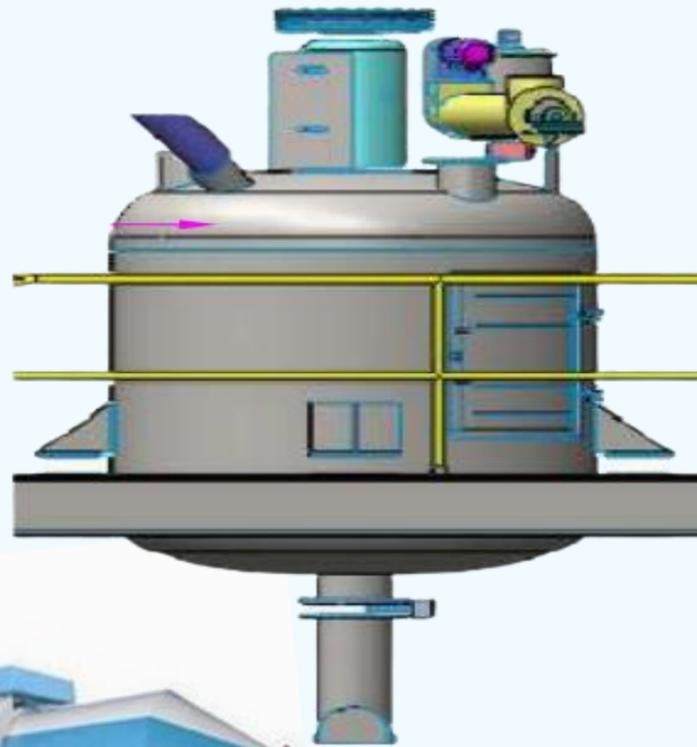
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3. Remote final product filing using remote operation of electronic valves.





AUTOMATED INDUSTRIAL PROCESS PLANTS: MATERIAL MIXING



1. Automatic material mixing for each batch
2. Set time & speed
3. Remote final product filing using remote operation of electronic valves.
4. **Transit machine** with automatic weigh batching system



WHY PROCESS AUTOMATION ??

- Streamline a business for simplicity,
- Achieve digital transformation,
- Increase product quality,
- Improve service delivery

It consists of integrating applications, restructuring labor resources, and using software applications throughout the organization.

IOT & Robotic process automation is an emerging field within BPA.





POTENTIAL BENEFITS TO HINDUSTAN RMC



1. Increased productivity up to 30%
2. High accuracy in final product (90%)
3. Flexibility: Control everything from anywhere
4. Reduced dependency on manpower
5. Technological integration with ERP: Track everything (purchase to sale from anywhere)
6. Energy saving
7. High Return on Investments (RoI) within 1 year with 70% plant capacity usage in each month.
8. Increased focus on future plans



COMMITMENTS FROM CITTA

1. Excellent Quality
2. Sound Product Services
3. Technological Integration
4. Technical Product Training
5. One-Stop Solutions
6. Higher ROI



"Inspiring digital transition"



QUESTIONS
AND
ANSWERS



CONTACT US

FOR QUESTIONS, COMMENTS, AND MORE INFO

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"Inspiring digital transition"