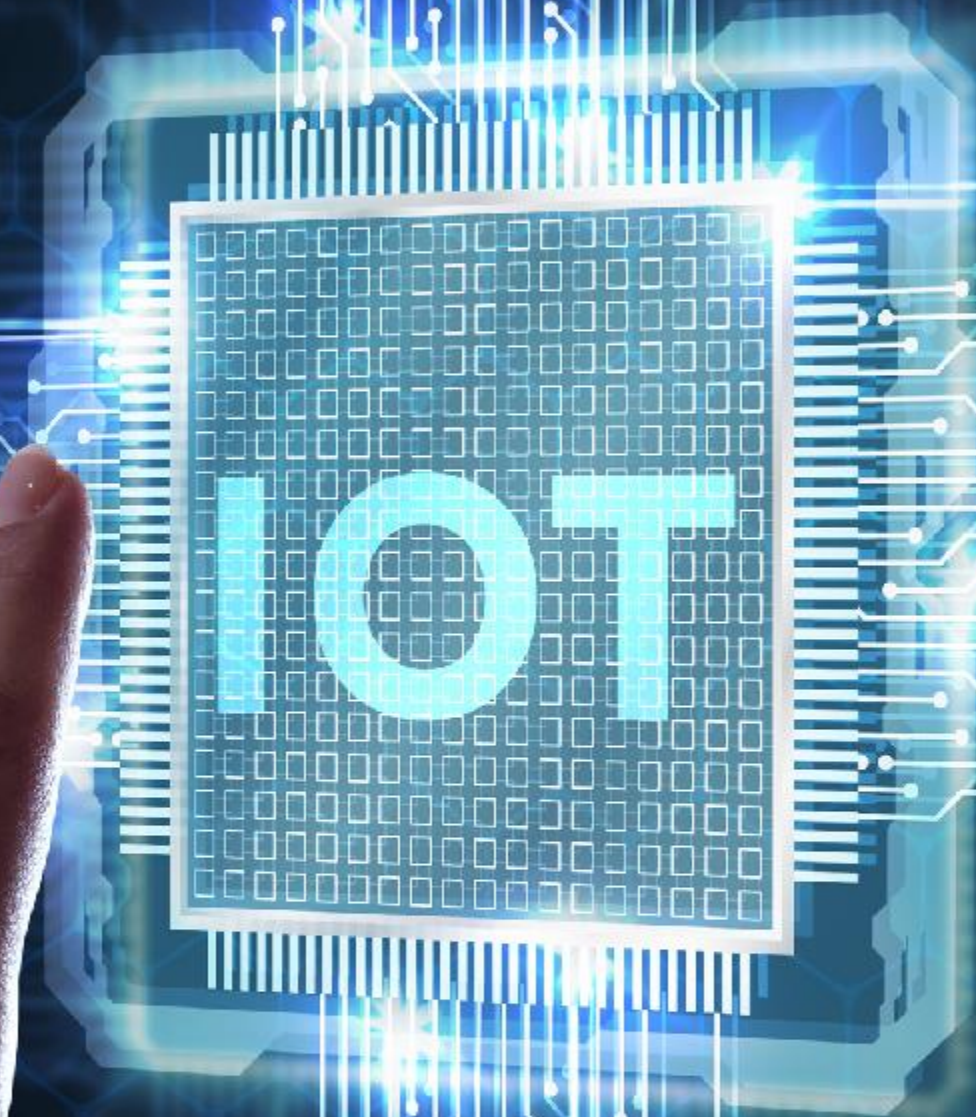


CITTA'S

# SYSTEM AUTOMATION

for HINDUSTAN RMC

**Hindustan RMC**  
INFRASTRUCTURE SOLUTION







# 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**

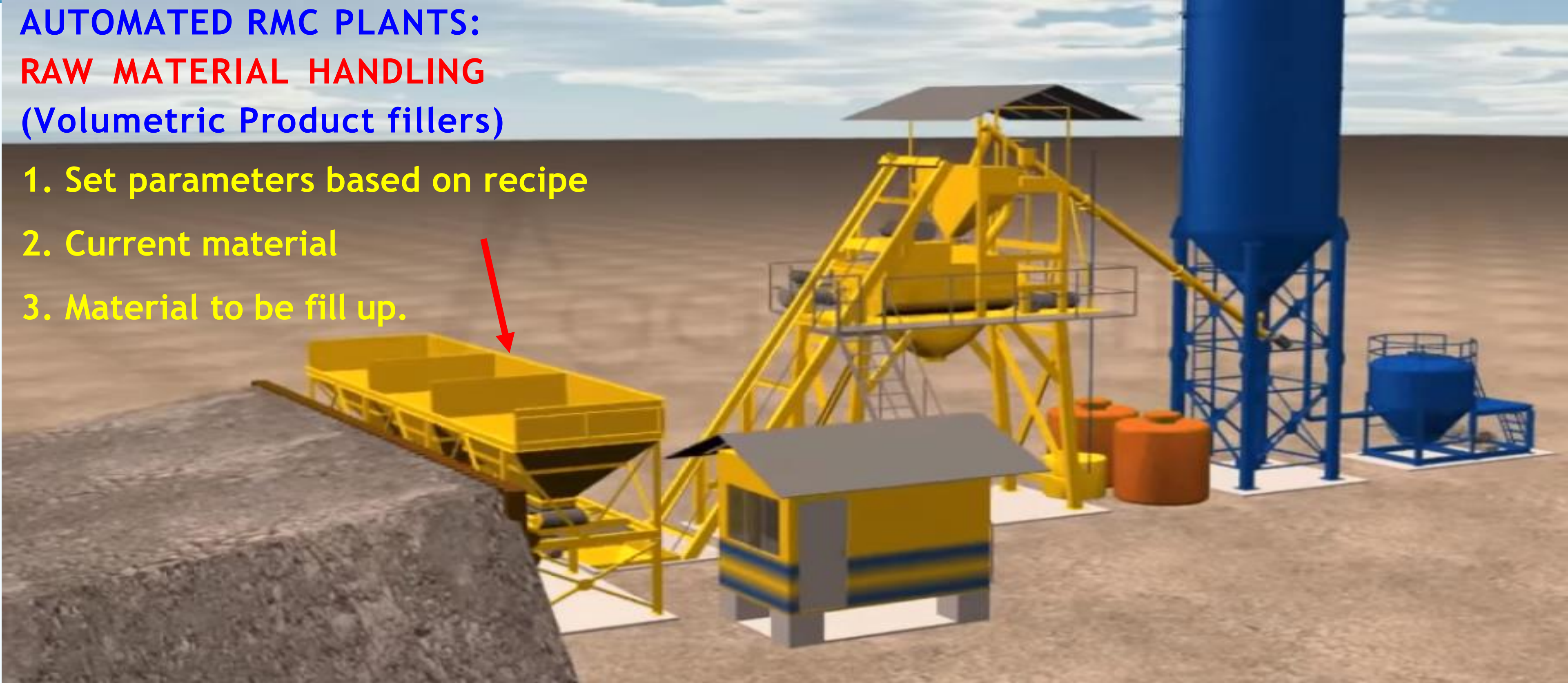
1. Automatic start & stop control using mobile/PC.
  2. Complete remote monitoring
  3. Automatic Batch number allocation
  4. Material handling control & monitoring  
(Current Status, Add Material, notifications)
- 
1. Auto-cleaning facility
  2. ERP Integration.
  3. Report generation filters
  4.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





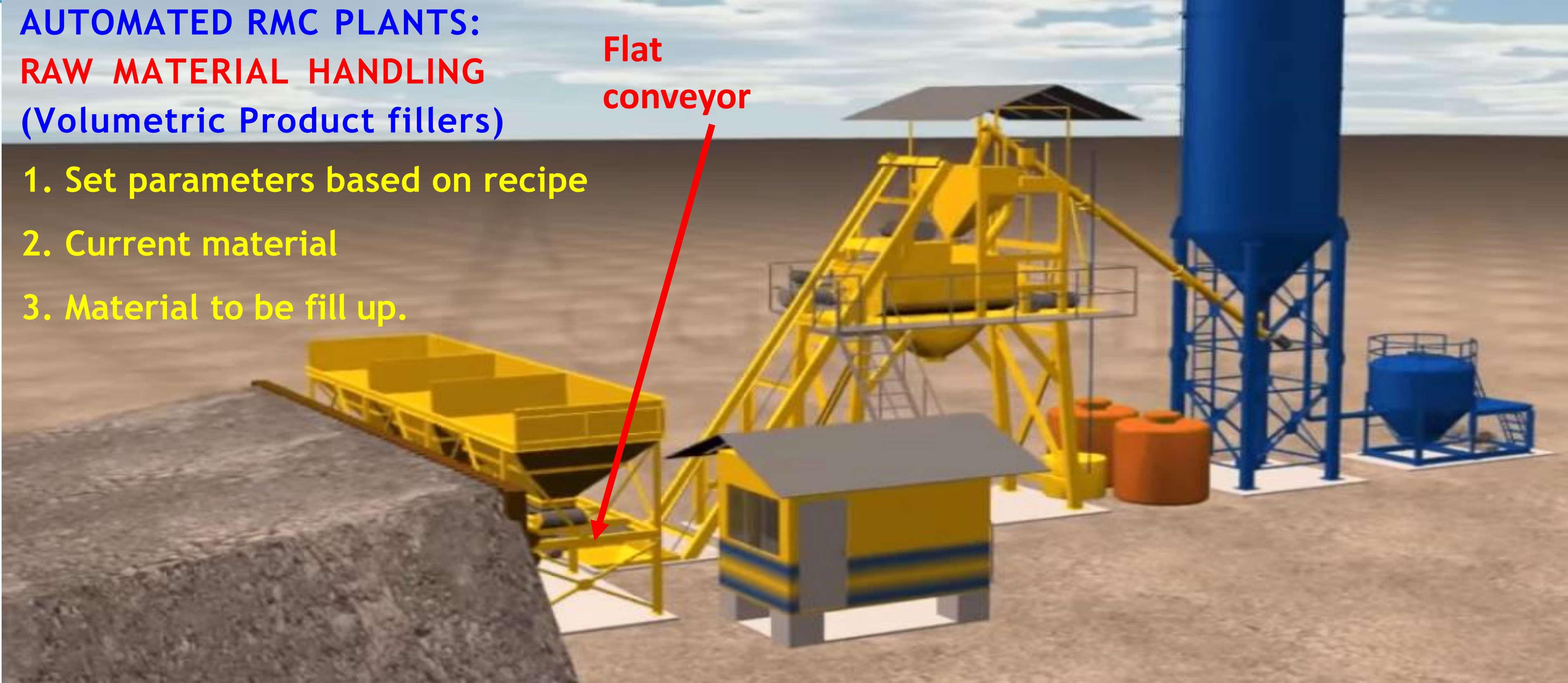


**AUTOMATED RMC PLANTS:**  
**RAW MATERIAL HANDLING**  
(Volumetric Product fillers)

Flat  
conveyor



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



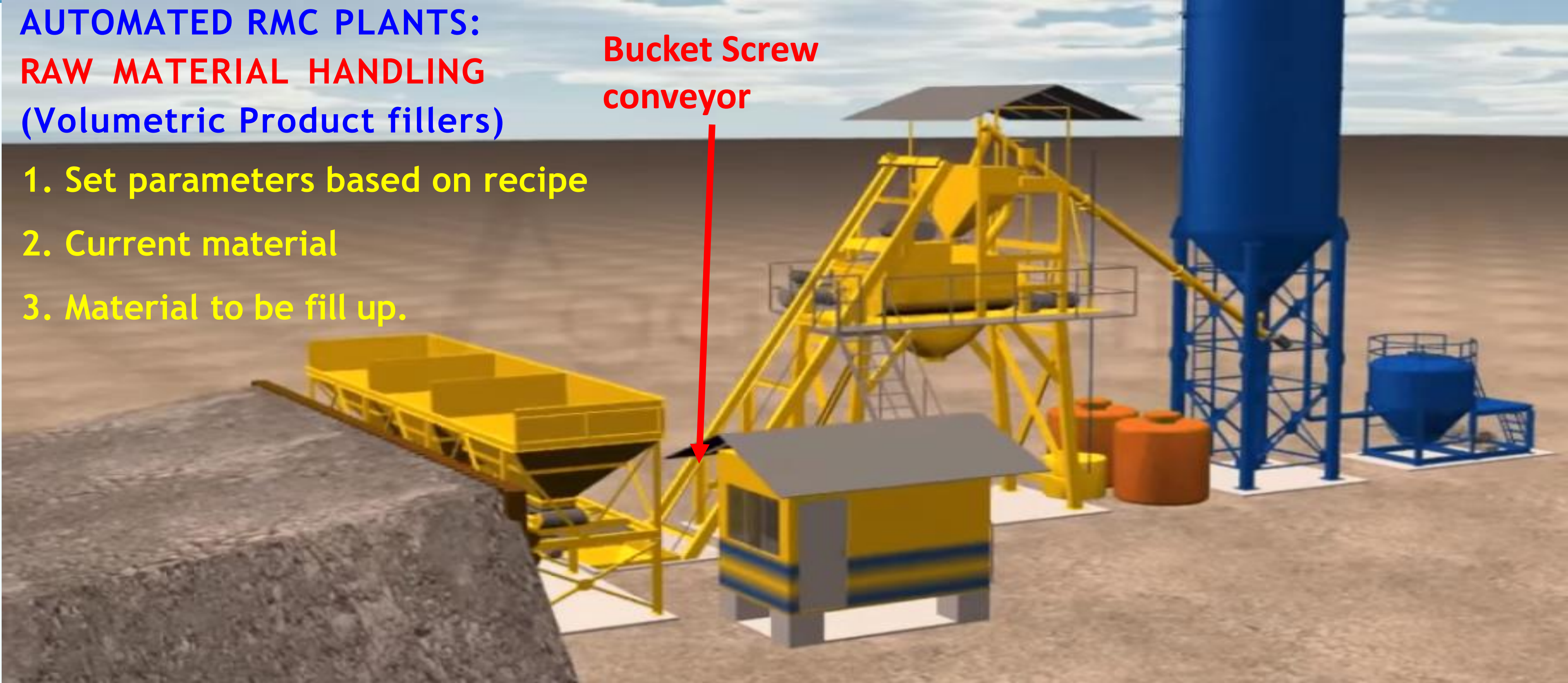




**AUTOMATED RMC PLANTS:**  
**RAW MATERIAL HANDLING**  
(Volumetric Product fillers)

**Bucket Screw  
conveyor**

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

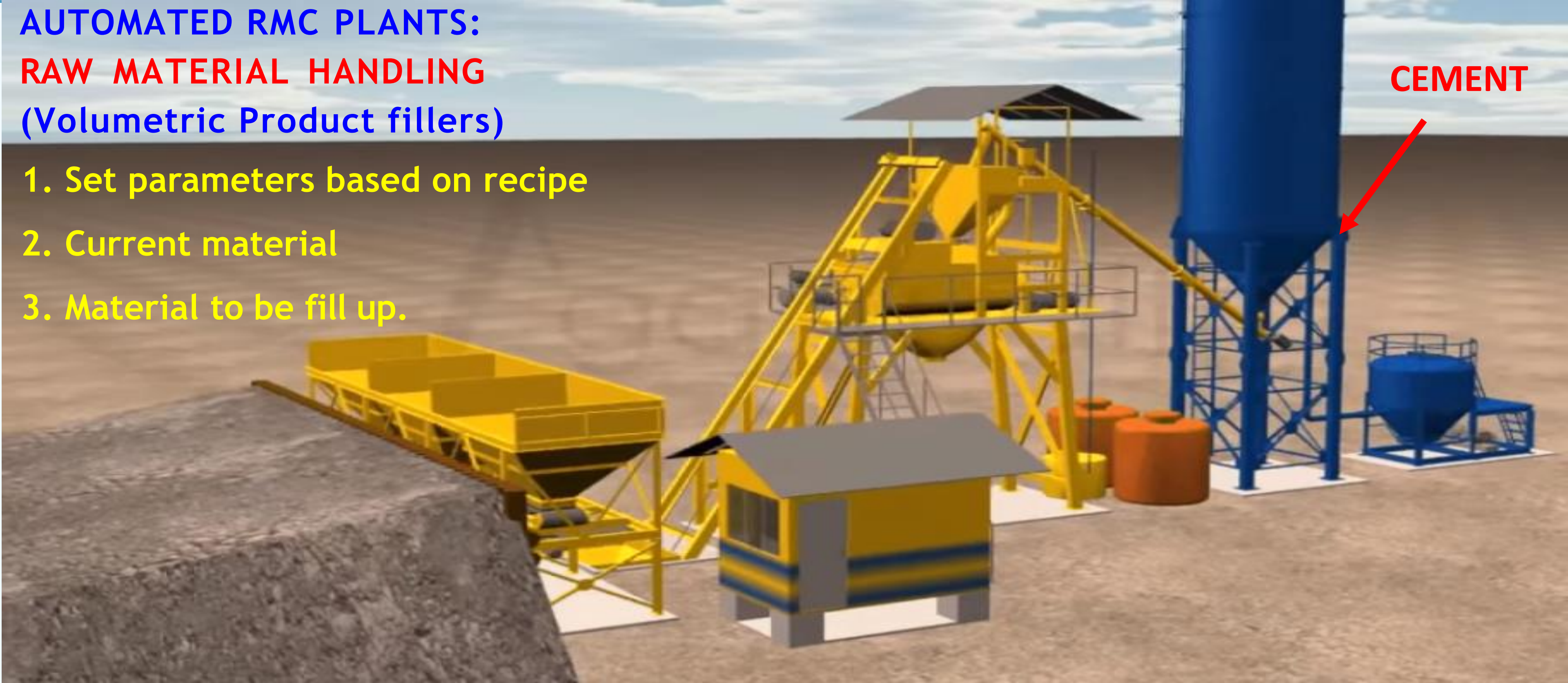






**AUTOMATED RMC PLANTS:**  
**RAW MATERIAL HANDLING**  
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1. Set parameters based on recipe
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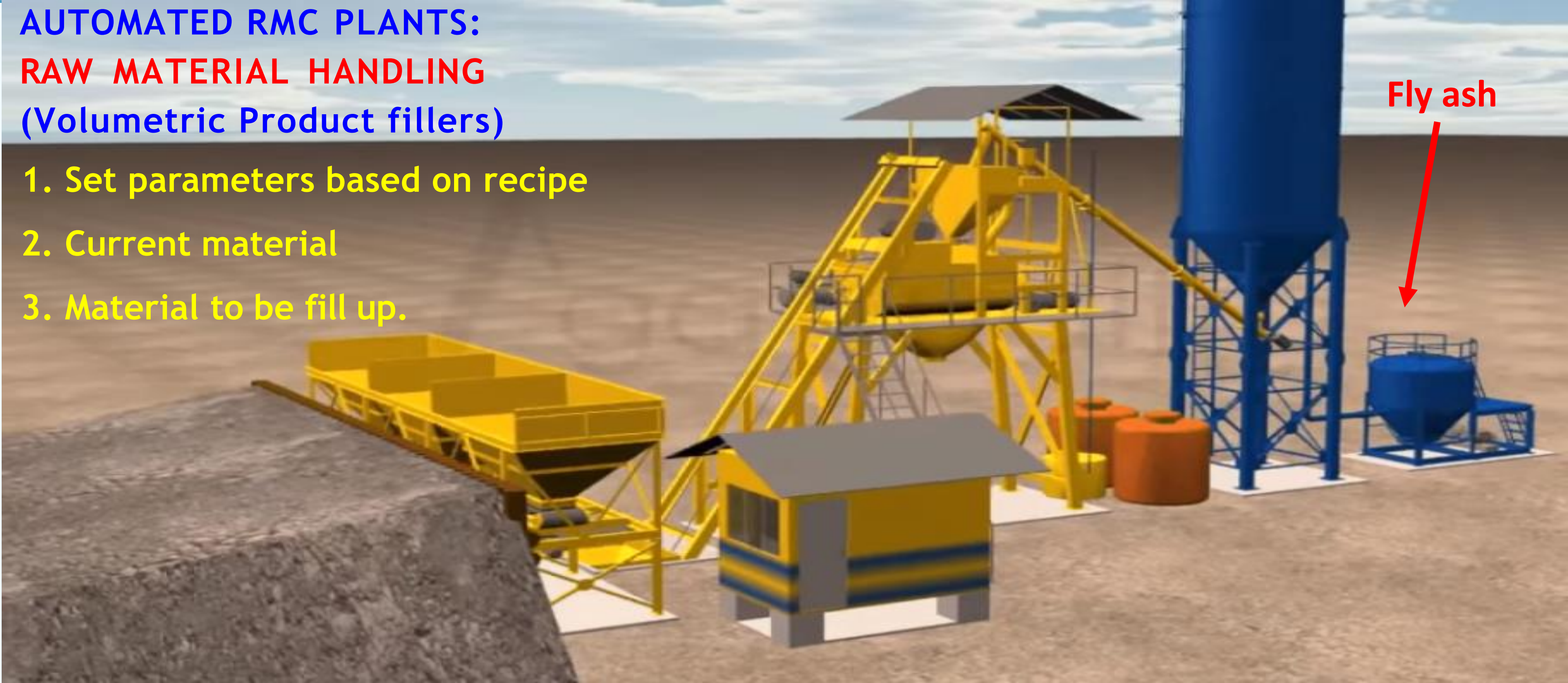






**AUTOMATED RMC PLANTS:**  
**RAW MATERIAL HANDLING**  
(Volumetric Product fillers)

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







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

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



**Water &  
Additive tanks**





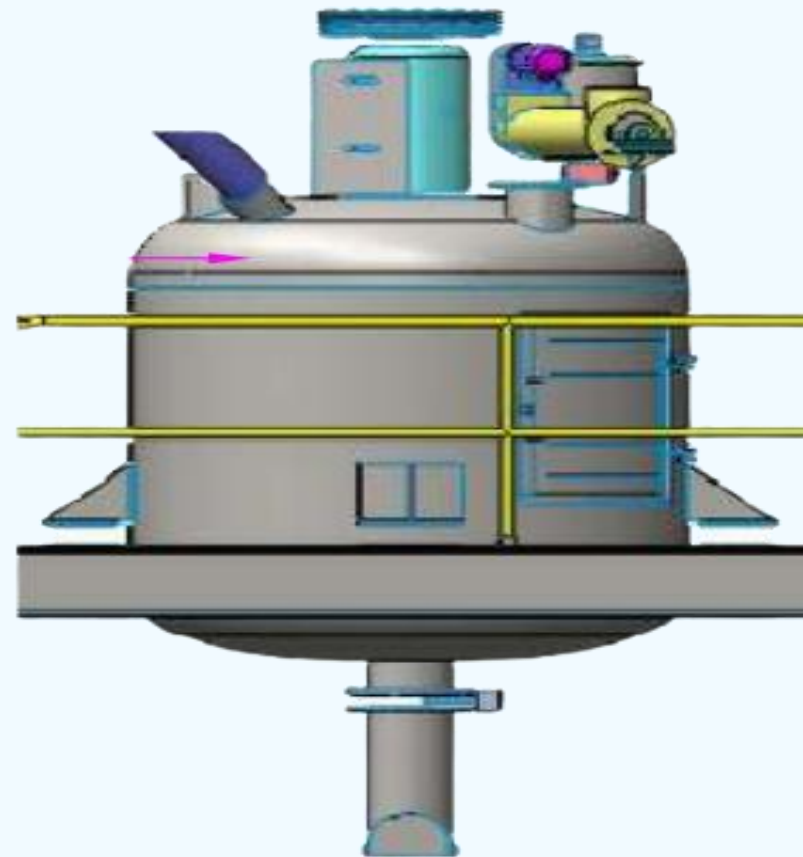
**AUTOMATED RMC PLANTS:**  
**RAW MATERIAL MIXING**  
(Volumetric Product fillers)

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

**Material Mixing**







## AUTOMATED INDUSTRIAL PROCESS PLANTS: MATERIAL MIXING

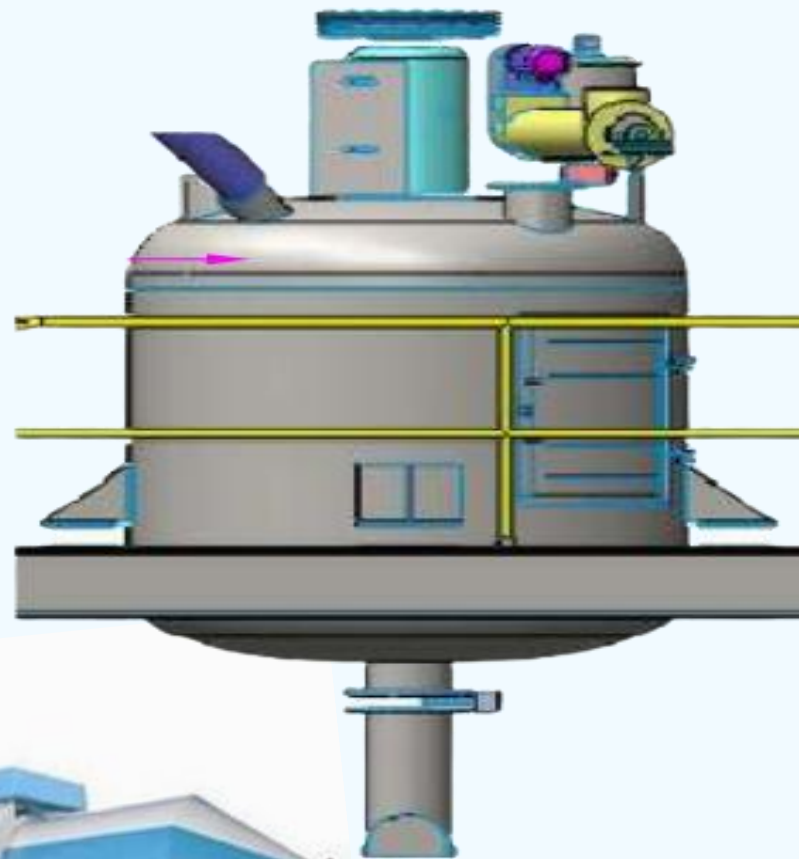
1. Automatic material mixing for each batch
2. Set time & speed





## 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.

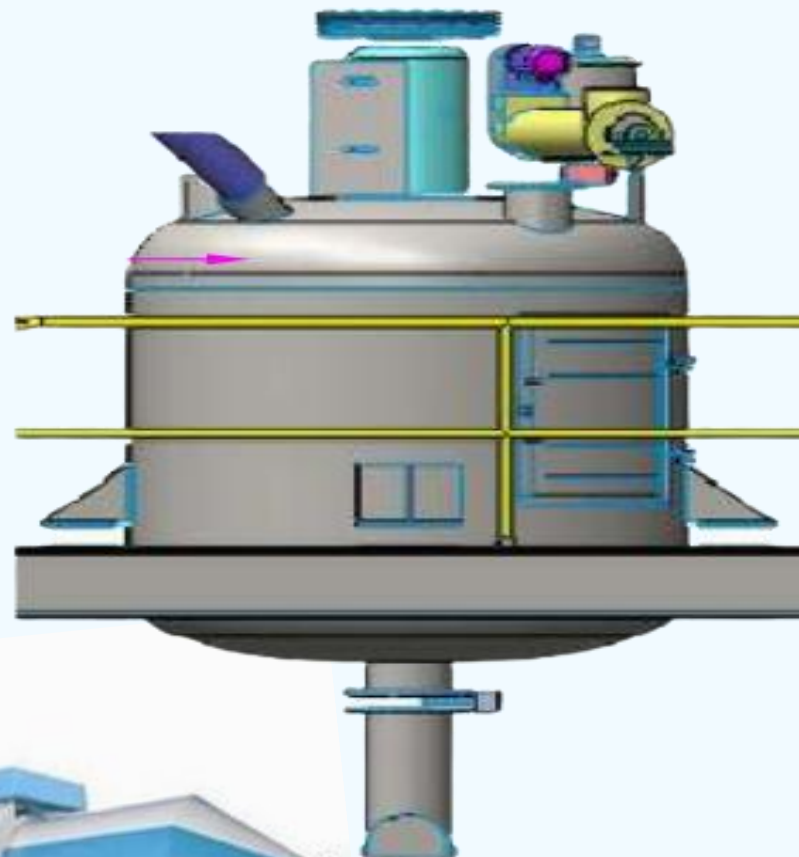






## AUTOMATED INDUSTRIAL PROCESS PLANTS: **MATERIAL MIXING**

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"