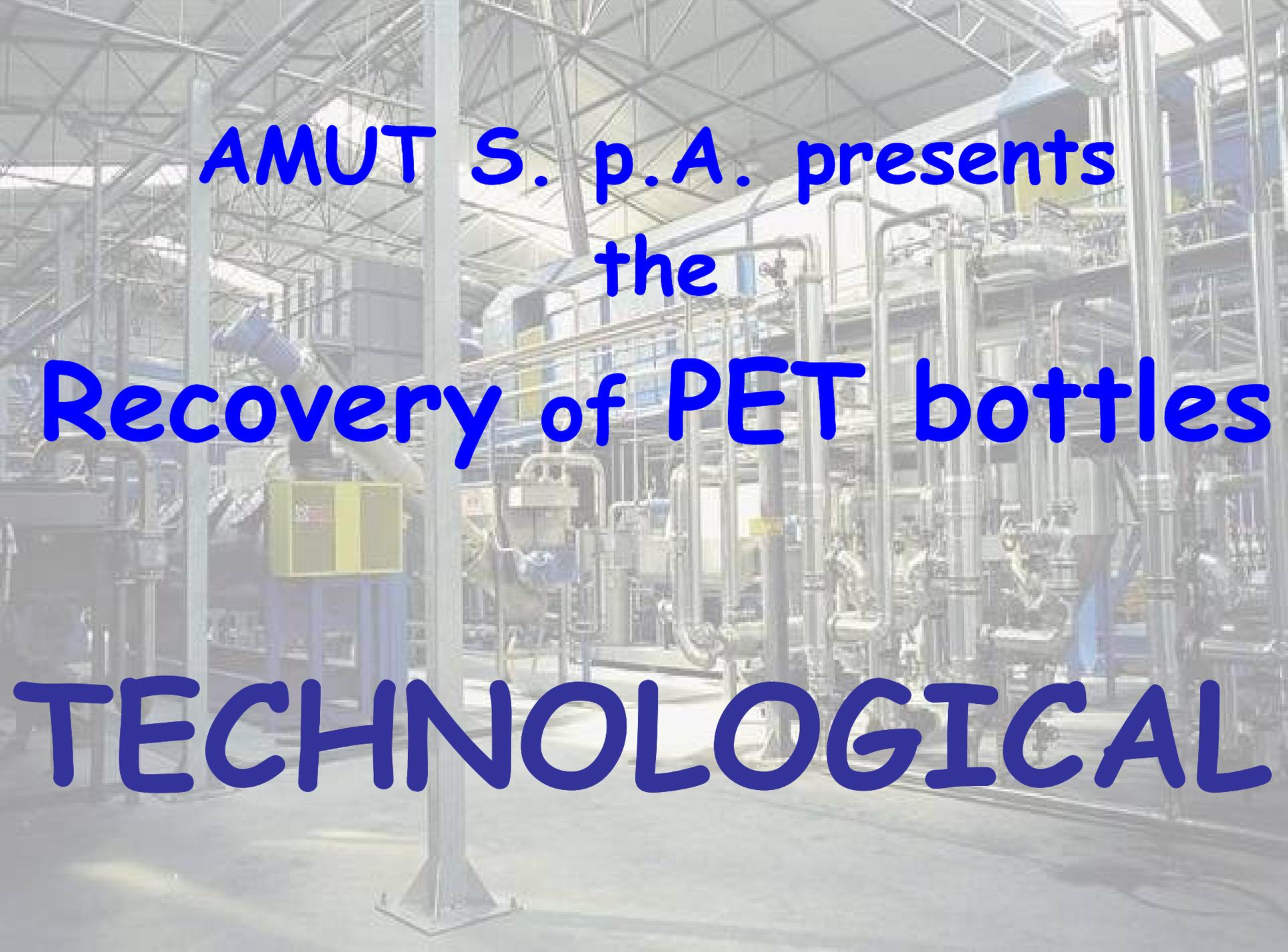




presents
the

Recovery of PET bottles :

TECHNOLOGICAL
QUALITATIVE
ECONOMICAL
HYGIENIC
ECOLOGICAL

The background of the image is a large industrial facility, likely a factory or refinery, with a complex network of metal pipes, structural beams, and machinery. The scene is brightly lit, possibly from natural light coming through a large open structure. The overall color palette is dominated by metallic greys and blues, with some yellow accents on equipment.

**AMUT S. p.A. presents
the**

Recovery of PET bottles

TECHNOLOGICAL



What has to be removed?

TO DO

THAT

AMUT

DO

THE BEST

Paper
PO
Labels

PO
Caps

Glue

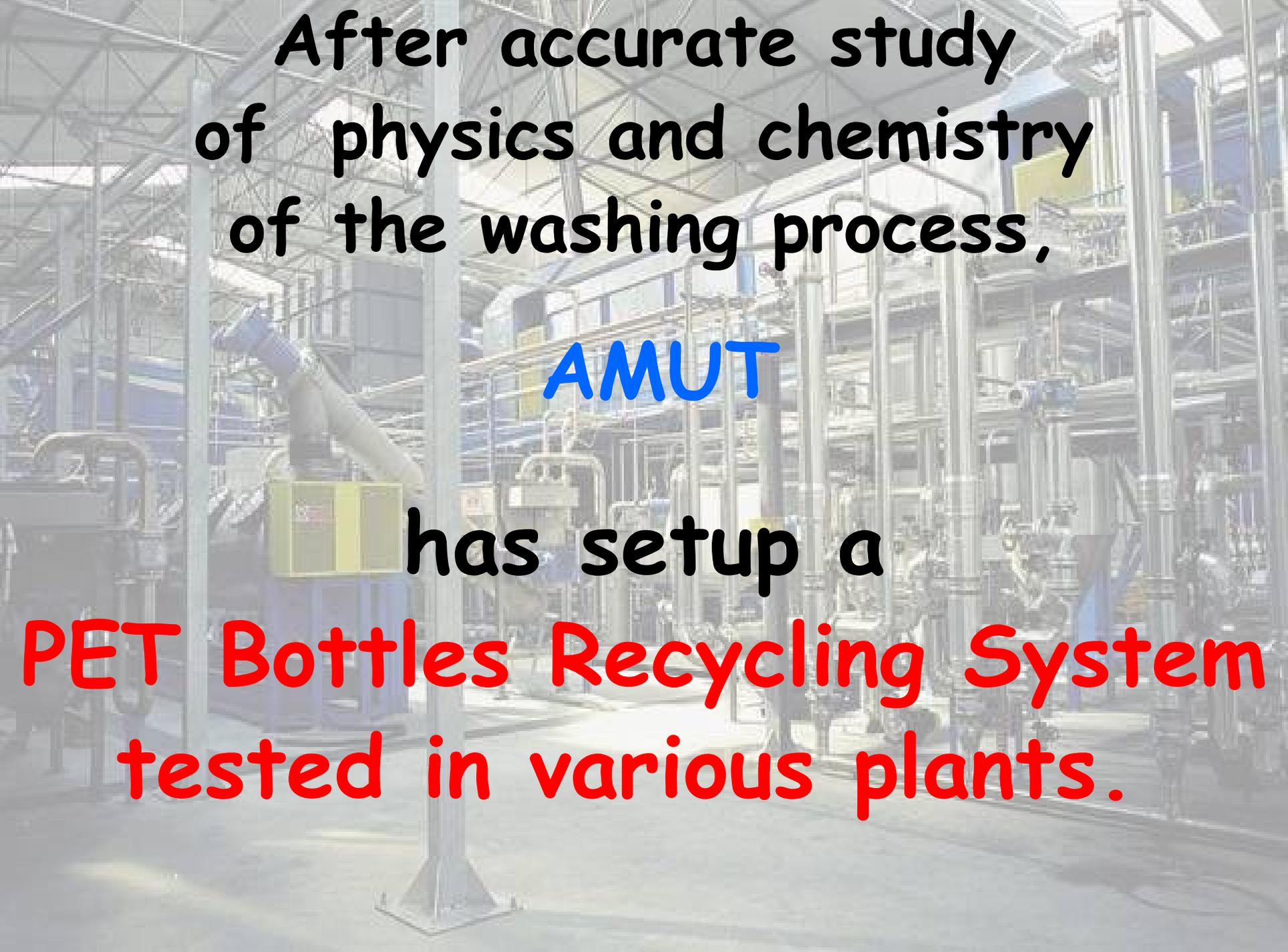
Dirt

PVC
Non PET

After accurate study
of physics and chemistry
of the washing process,

AMUT

has setup a
Recycling System
tested in various plants.

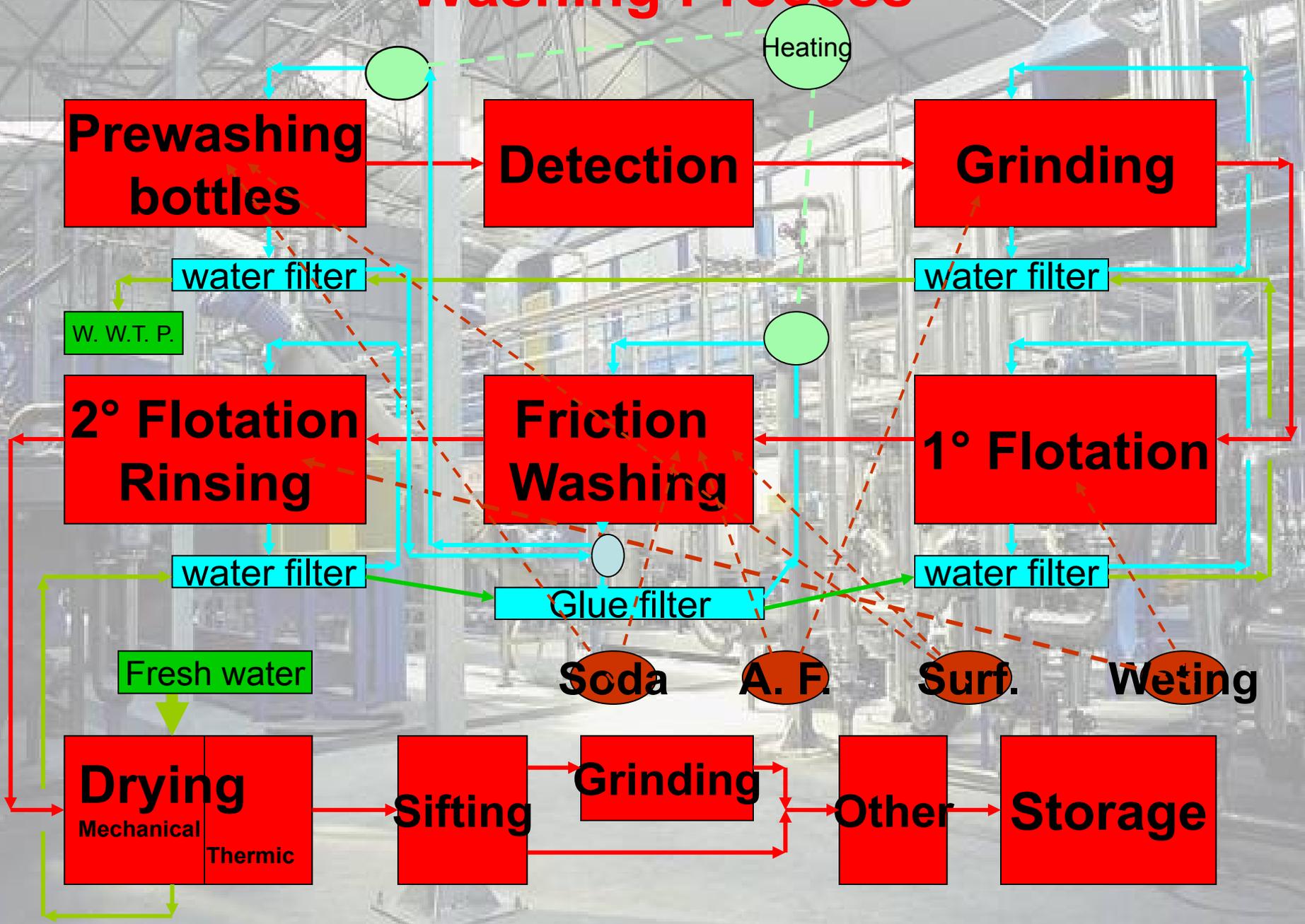


After accurate study
of physics and chemistry
of the washing process,

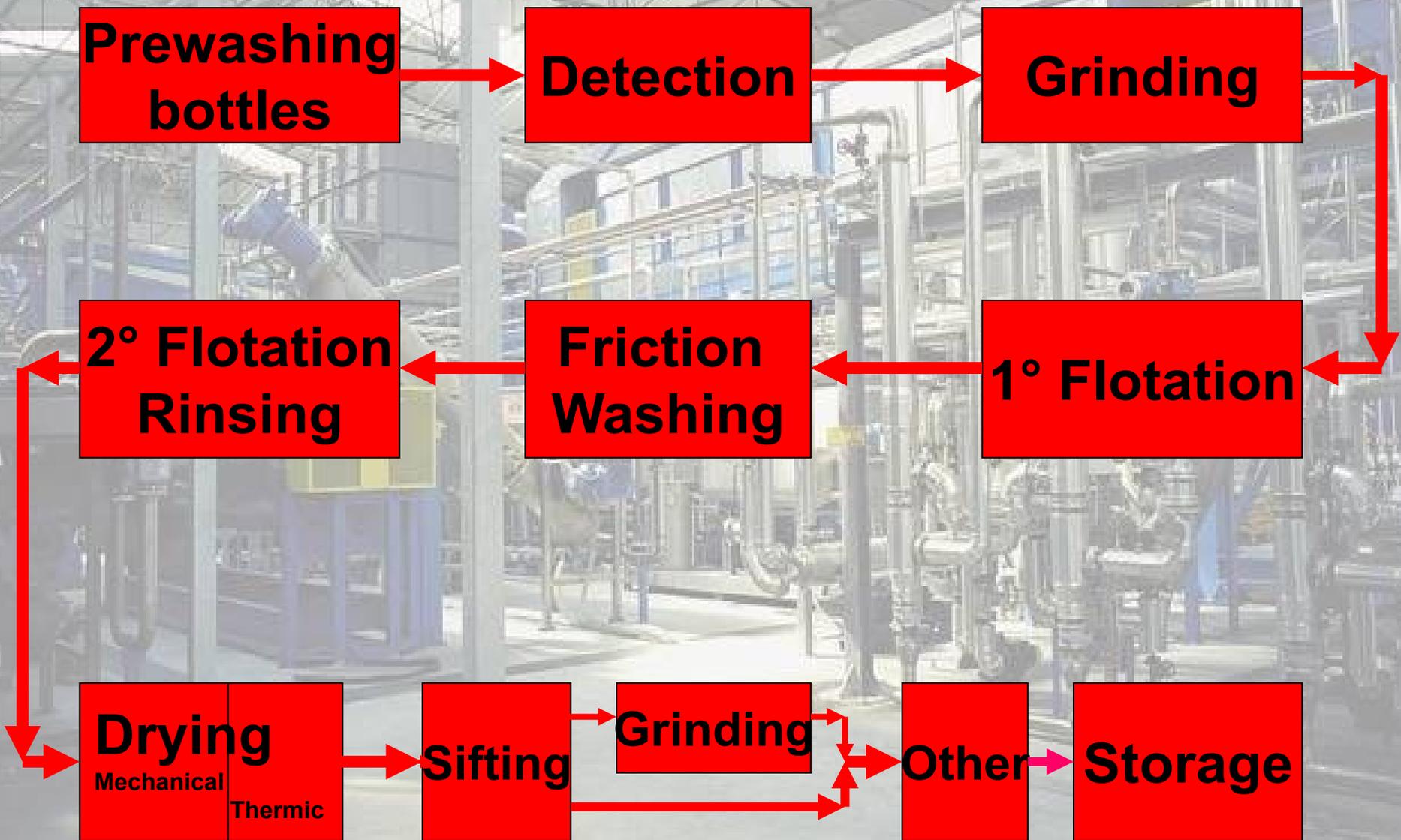
AMUT

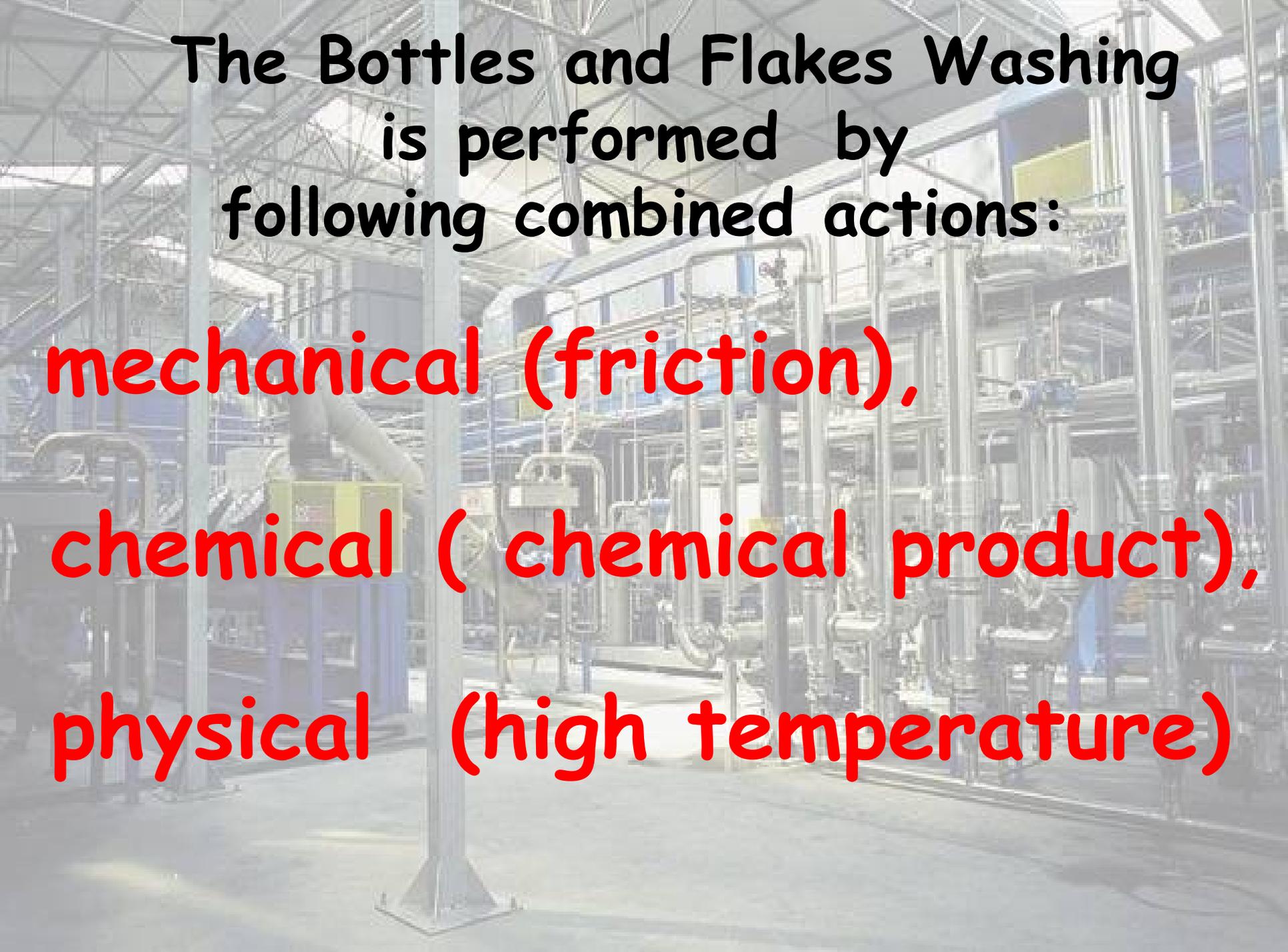
has setup a
PET Bottles Recycling System
tested in various plants.

Washing Process



Washing Process – Flow-sheet -



The background of the slide is a photograph of a large industrial facility, likely a food processing plant. It features a complex network of stainless steel pipes, tanks, and structural beams. The lighting is bright, and the overall scene is clean and organized. The text is overlaid on this background.

The Bottles and Flakes Washing
is performed by
following combined actions:

mechanical (friction),

chemical (chemical product),

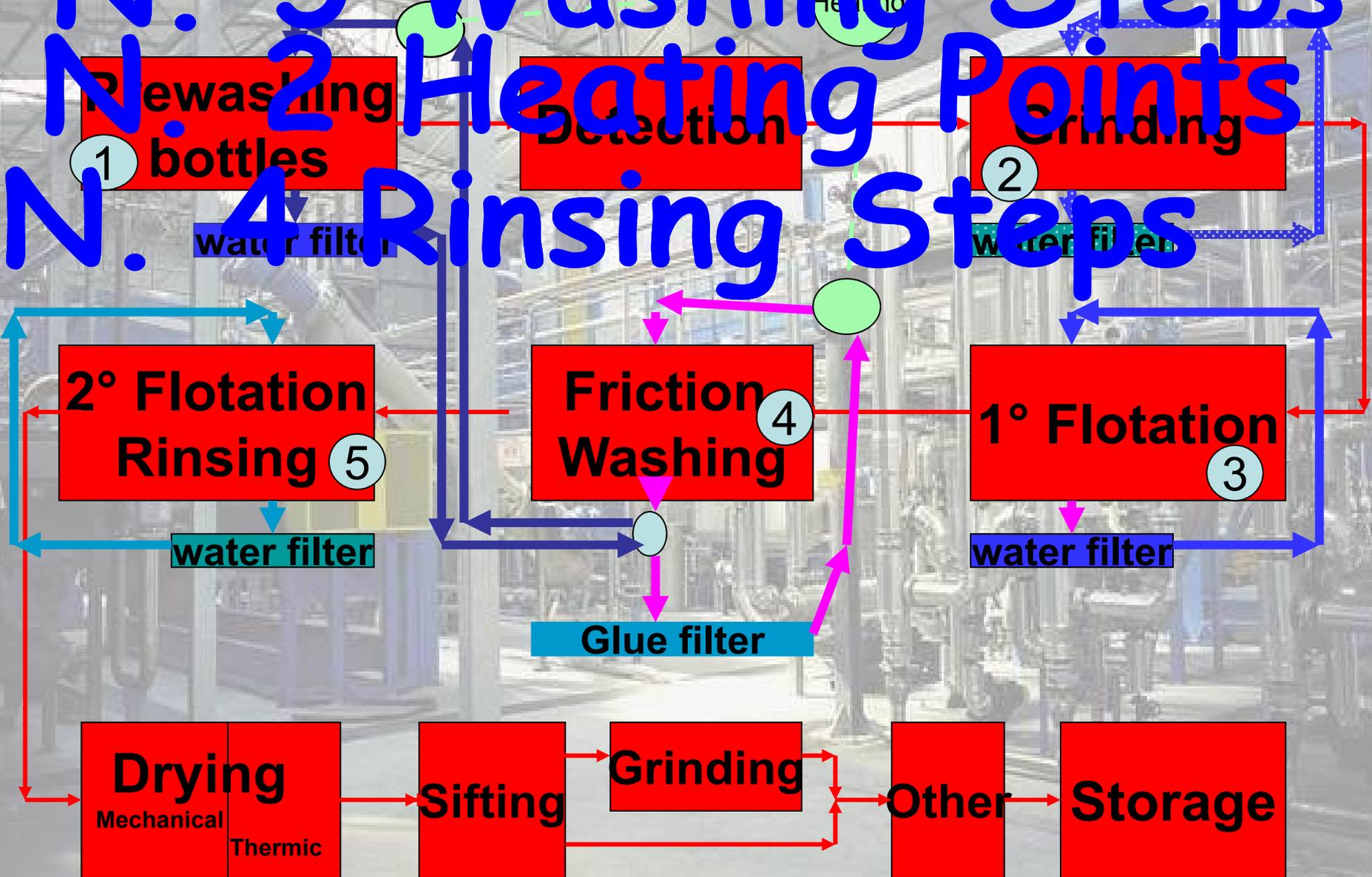
physical (high temperature)

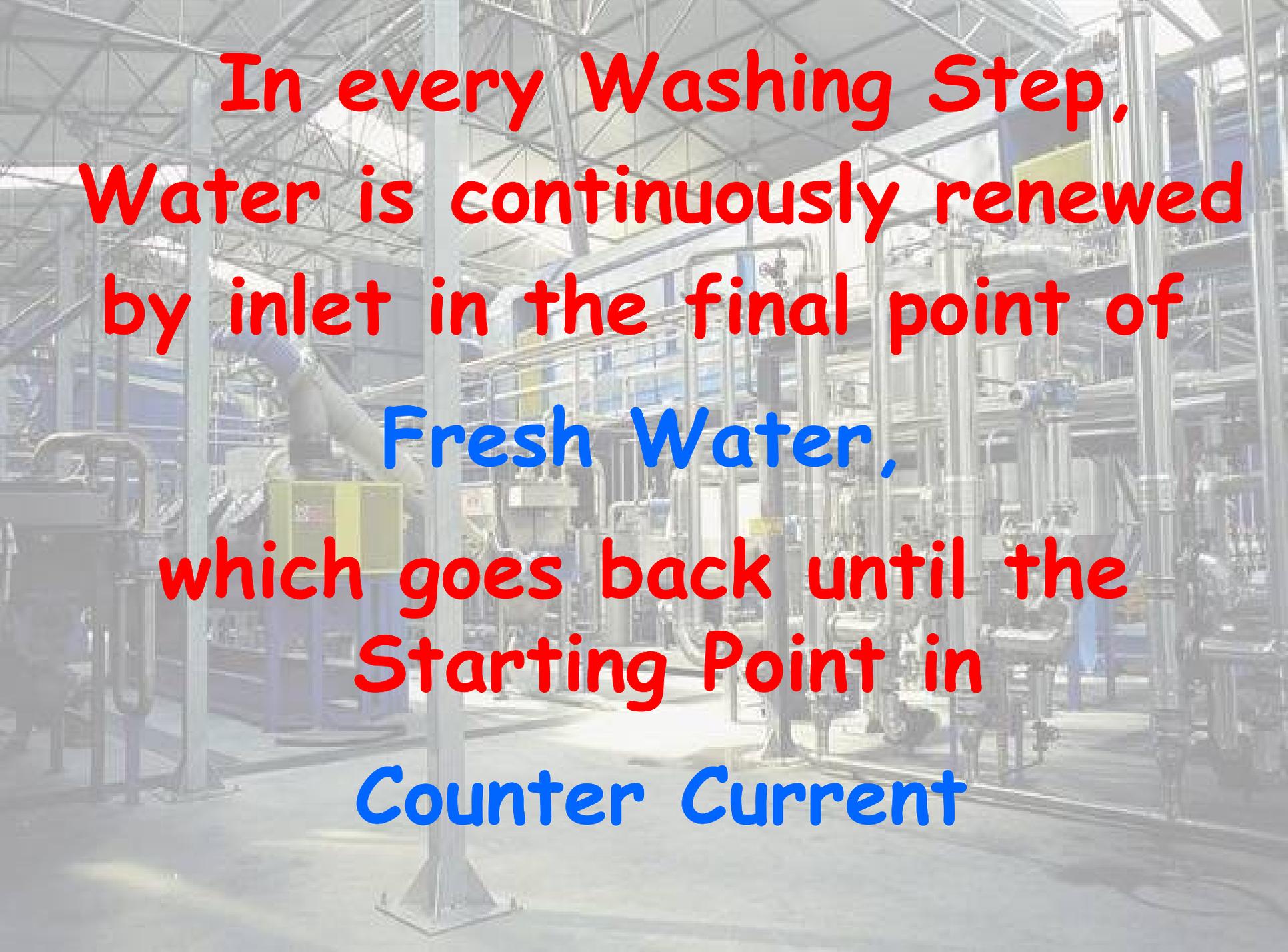
The background image shows a large industrial facility, likely a water treatment or recycling plant. It features a complex network of metal pipes, structural beams, and various pieces of machinery. The scene is brightly lit, possibly from overhead industrial lights, creating a clean and technical atmosphere. The text is overlaid in a bold, red, sans-serif font, centered on the image.

**The continuous
Recycling
of the Process Water
through Filters
is made in all
Washing Steps.**

Process Water Flow-sheet

N. 5 Washing Steps
N. 2 Heating Points
N. 4 Rinsing Steps



The background of the image is a faded, grayscale photograph of an industrial facility, likely a refinery or chemical plant. It features a complex network of pipes, metal structures, and various pieces of equipment. The lighting is bright, suggesting an indoor or well-lit outdoor environment. The overall scene is technical and industrial in nature.

**In every Washing Step,
Water is continuously renewed
by inlet in the final point of
Fresh Water,
which goes back until the
Starting Point in
Counter Current**

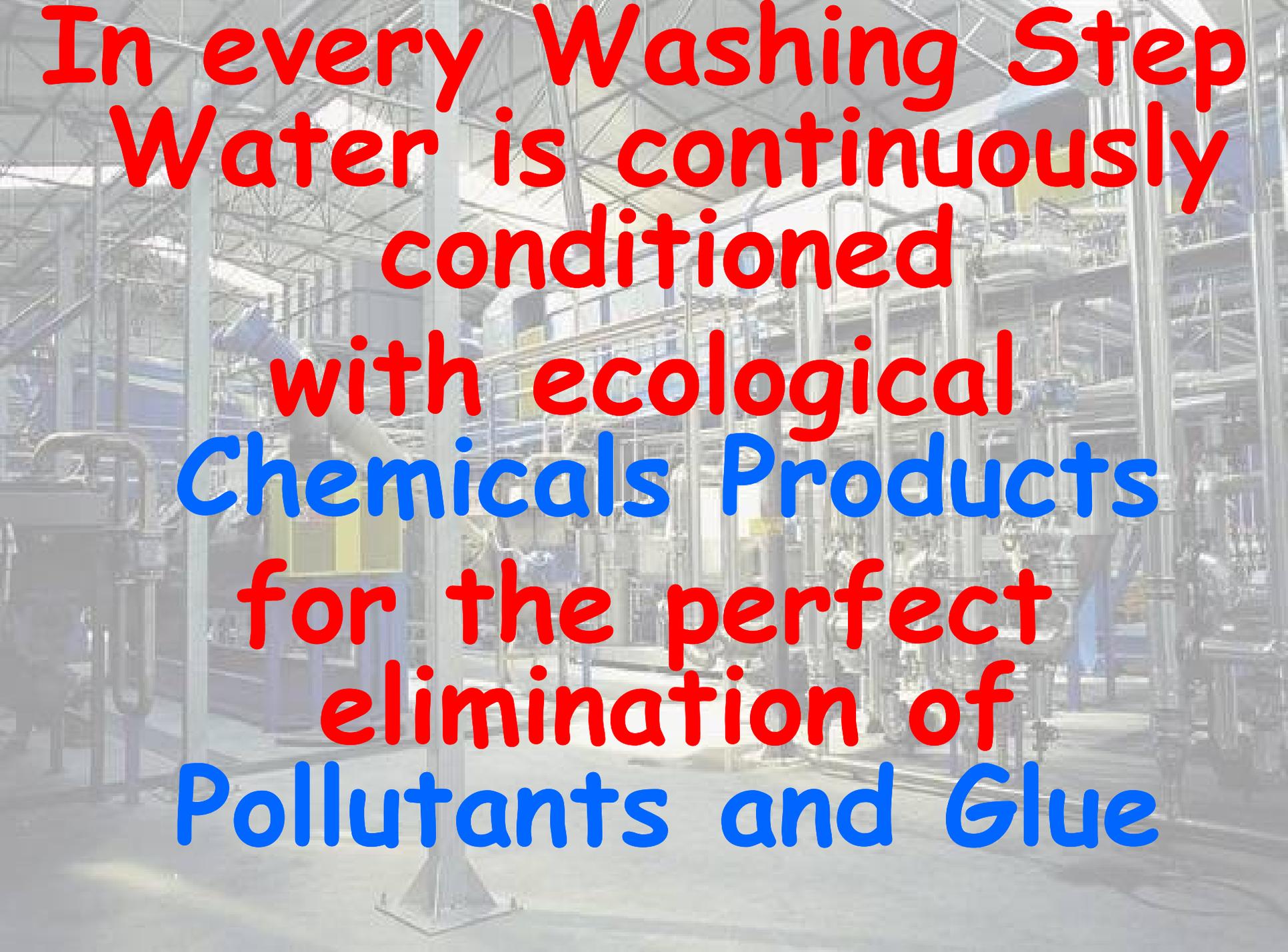
Water Counter Current Flow-sheet -

Waste Water Treatment Plant

Waste Water Treatment Plant

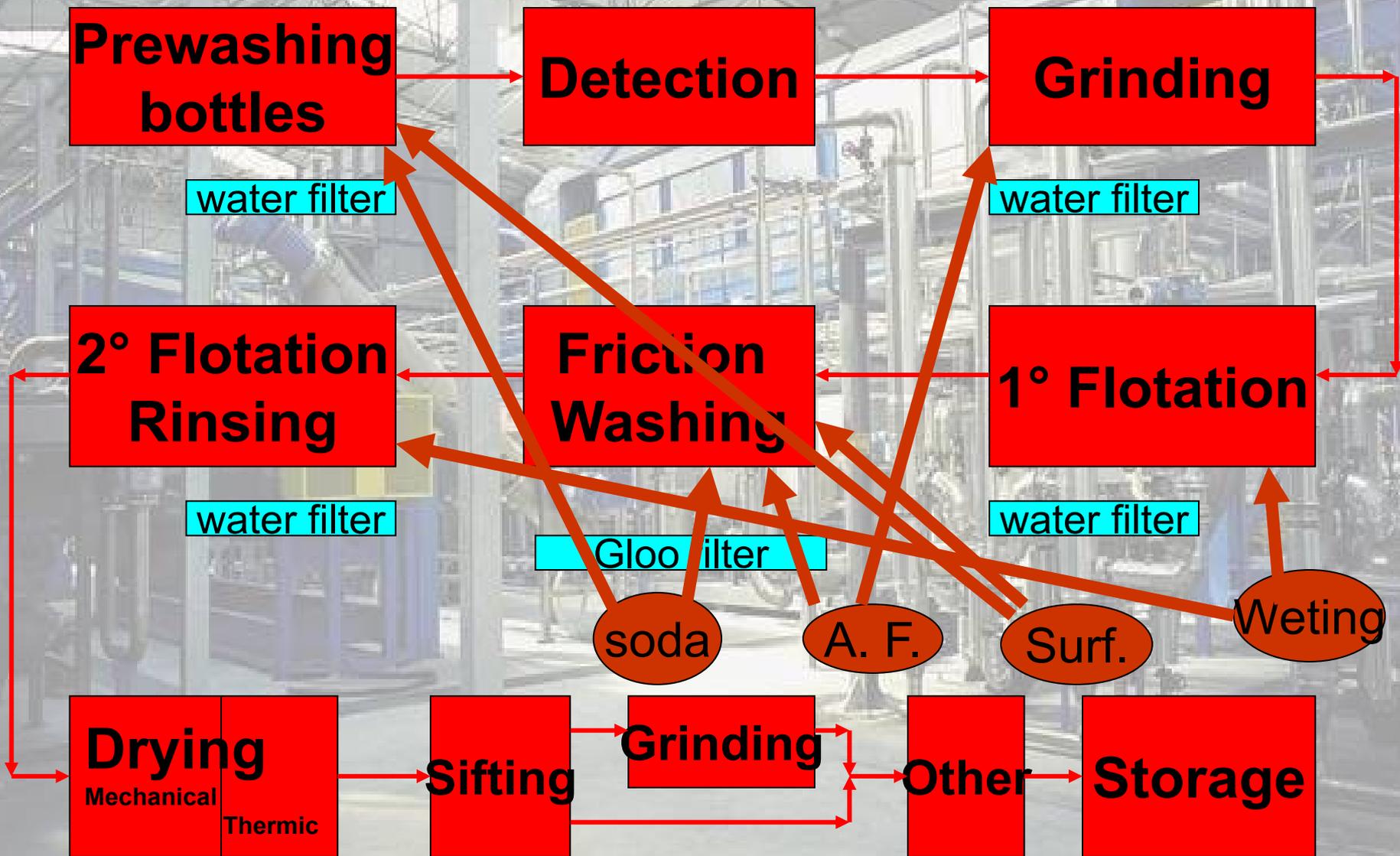
0.8 LT/Kg RPEFT





**In every Washing Step
Water is continuously
conditioned
with ecological
Chemicals Products
for the perfect
elimination of
Pollutants and Glue**

Washing Process – Chemicals Flow-sheet

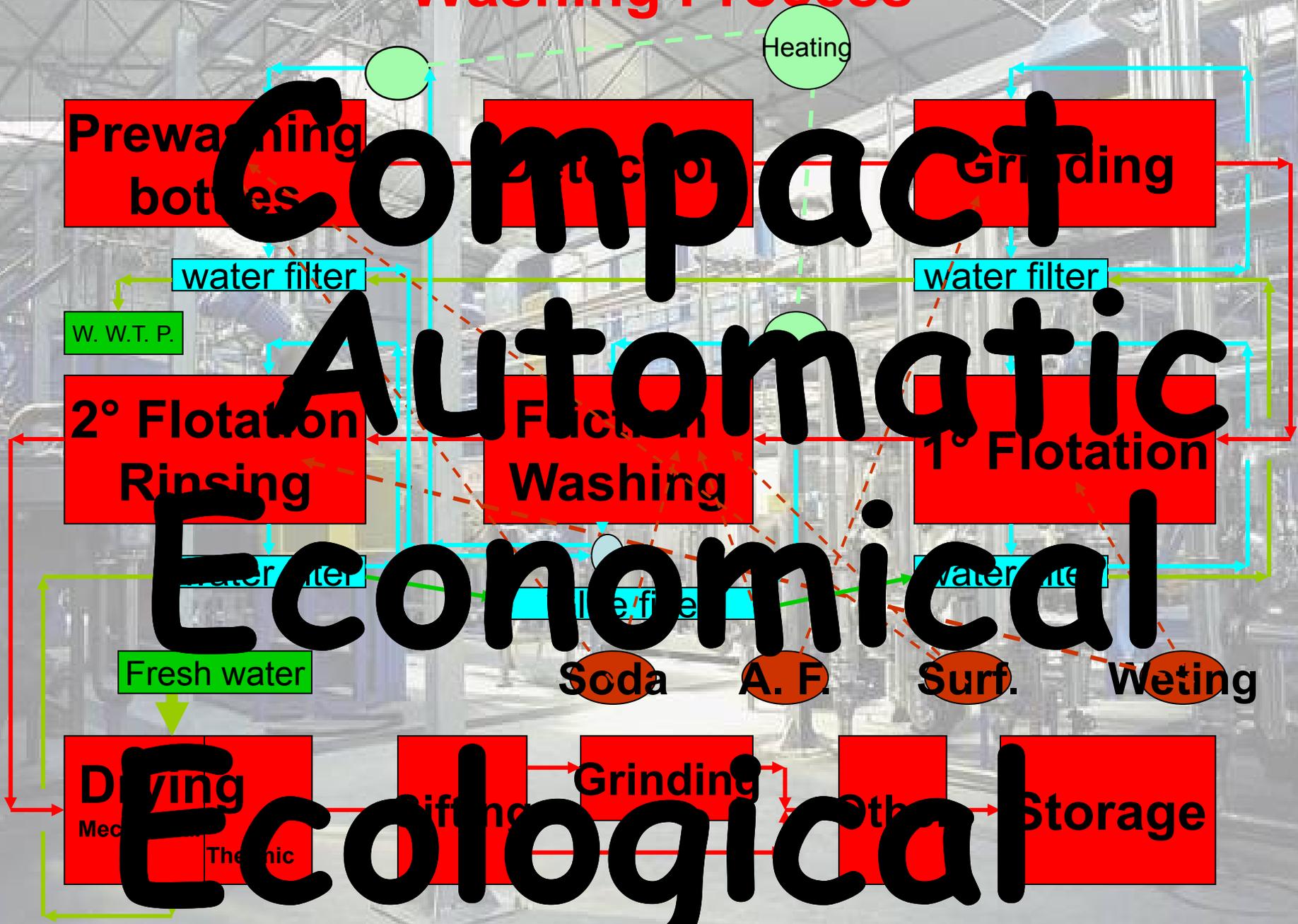


**Total Consumption of
Chemicals:**

10 Lt/Ton of RPET

**The right Products
In the right Position
In the right Proportion**

Washing Process



Compact
Automatic
Economical
Ecological

Washing Process

Prewashing bottles

Detection

Grinding

1° Flotation

Friction Washing

2° Flotation Rinsing

Drying

Other

Storage

Pit for Feeding Bottles in Bales

Automatic control of feeding



Washing Process

Prewashing
bottles

Detection

Grinding

1° Flotation

Friction
Washing

2° Flotation
Rinsing

Drying

Other

Storage

Prewashing
Trommel

Continuous
process

No need of
Balesbraeker

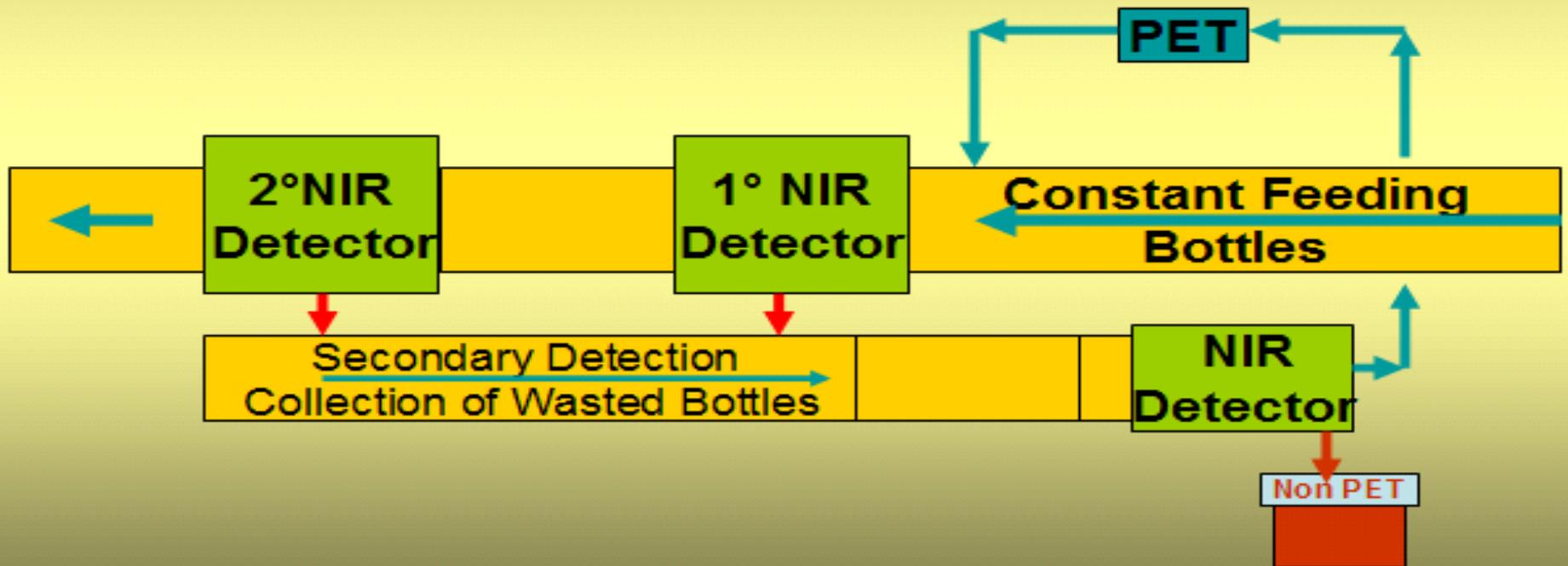
Patented system



Washing Process



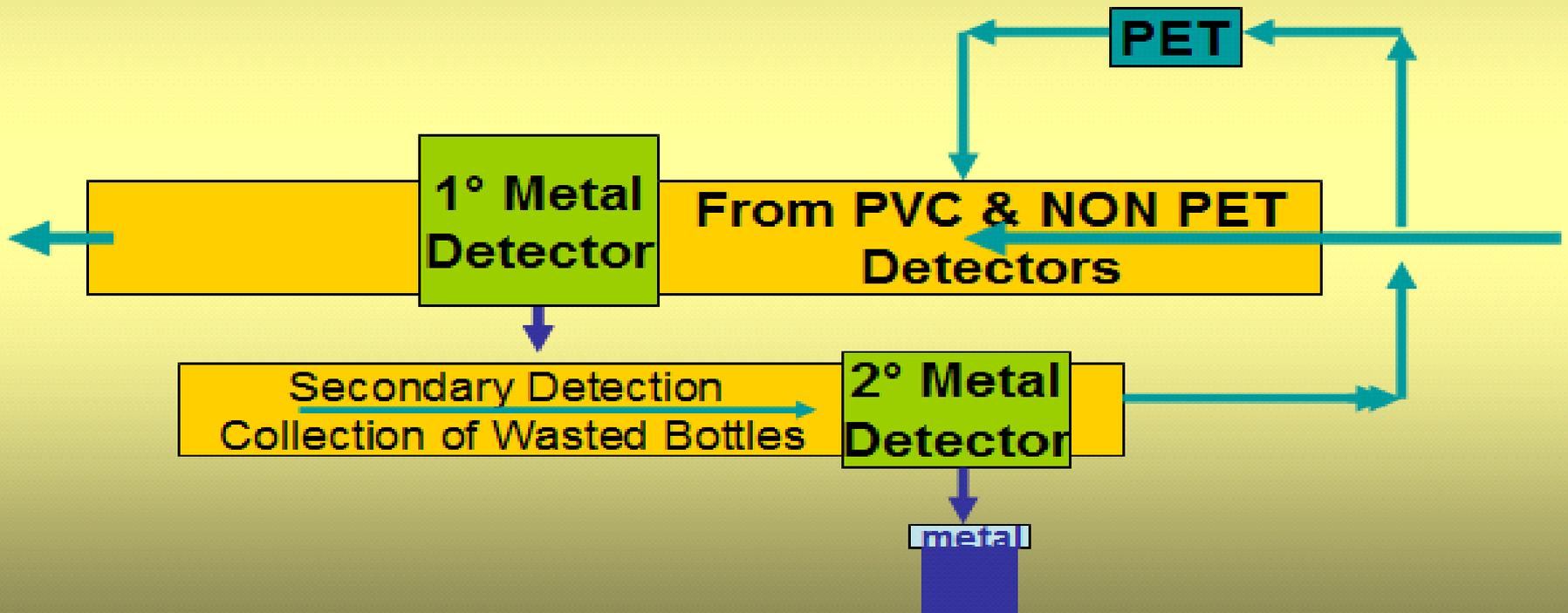
Automatic PVC e Non PET Detection



Washing Process



Detection Metall



Washing Process

Prewashing
bottles

Detection

Grinding

1° Flotation

Friction
Washing

2° Flotation
Rinsing

Drying

Other

**Constant
Feeding**

Control of Input

**Dosing bottles
to Detectors**



Washing Process

Prewashing
bottles

Detection

Grinding

1° Flotation

Friction
Washing

2° Flotation
Rinsing

Drying

Other

Storage

**Primary Detection
n.2 NIR Detectors**



Washing Process

Prewashing
bottles

Detection

Grinding

1° Flotation

Friction
Washing

2° Flotation
Rinsing

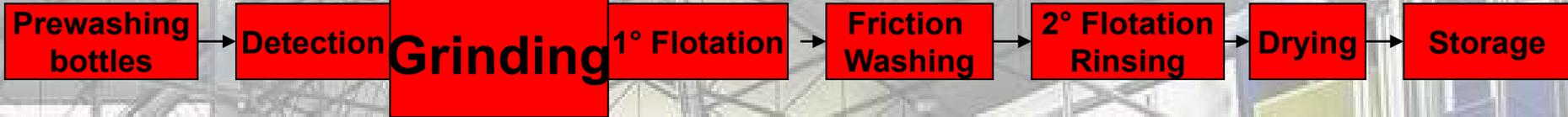
Drying

Storage

**Secondary
Detection
of
Metall
And
NON PET**



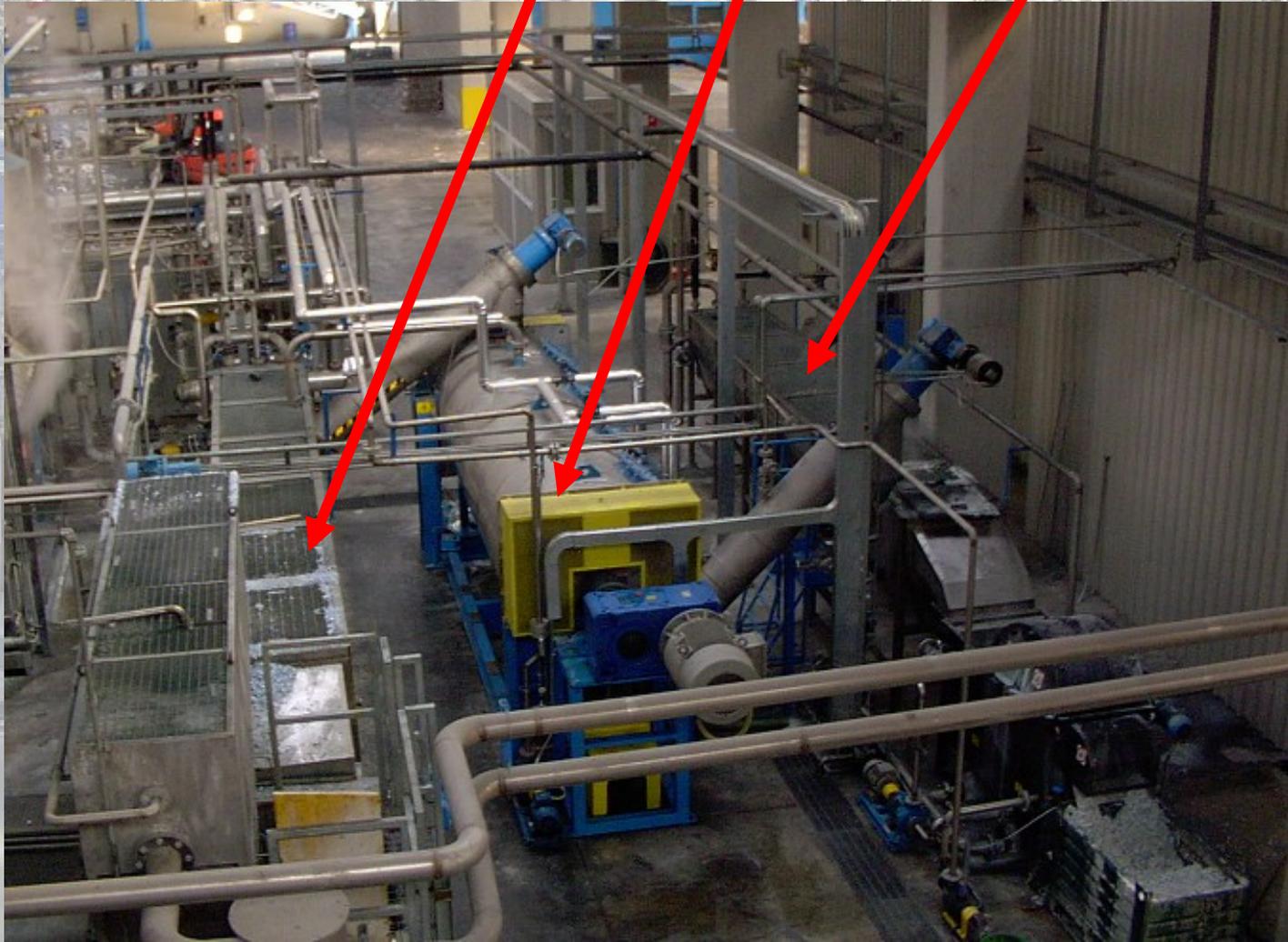
Washing Process



**Primary
Wet Grinding**



Washing Process



Washing Process

Prewashing bottles

Detection

Grinding

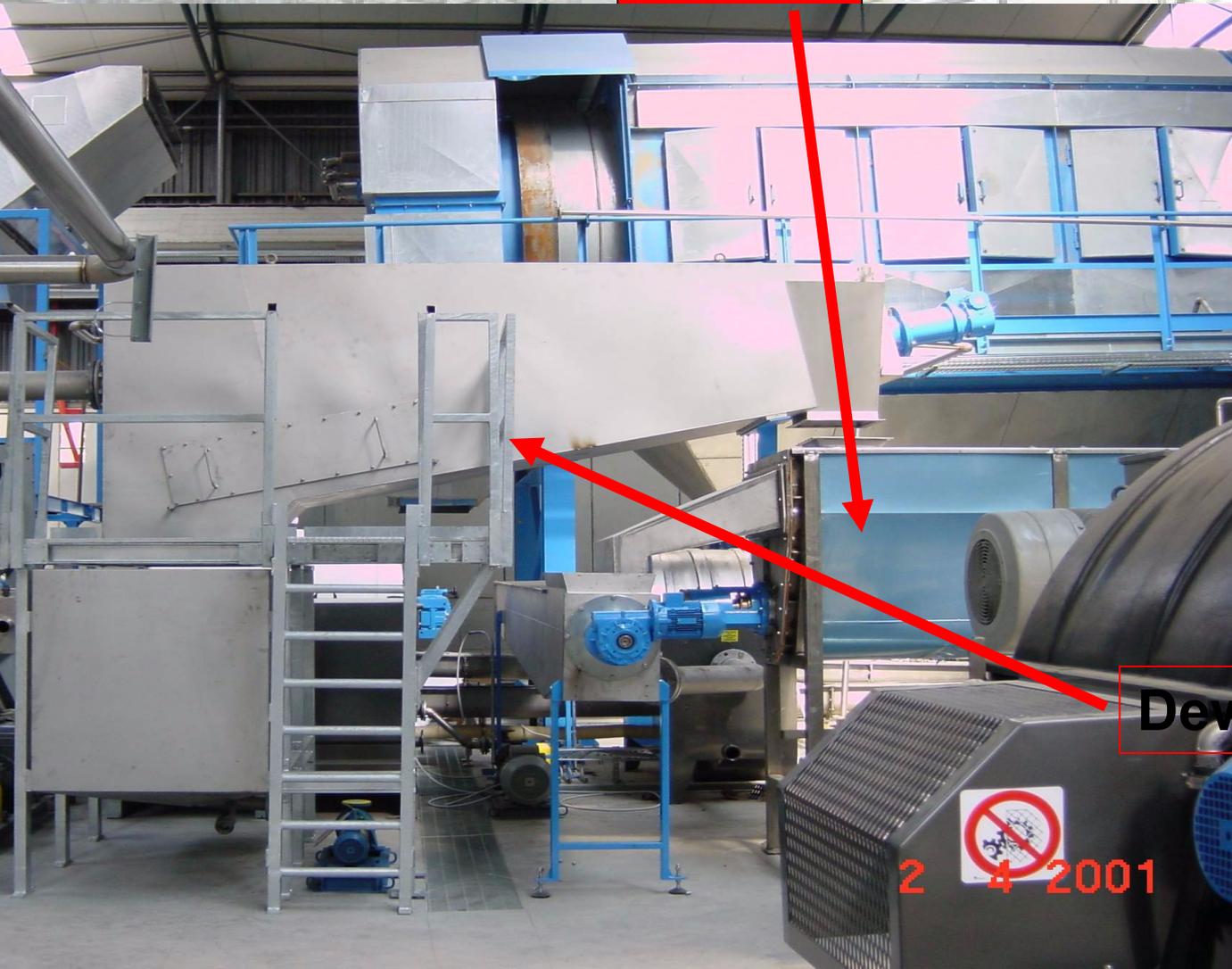
1° Flotation

Friction Washing

2° Flotation Rinsing

Drying

Storage



Dewatering screw

2 4 2001

Washing Process



**FRICTION
WASHER**

Automatic/Continuous

Control of Residence Time

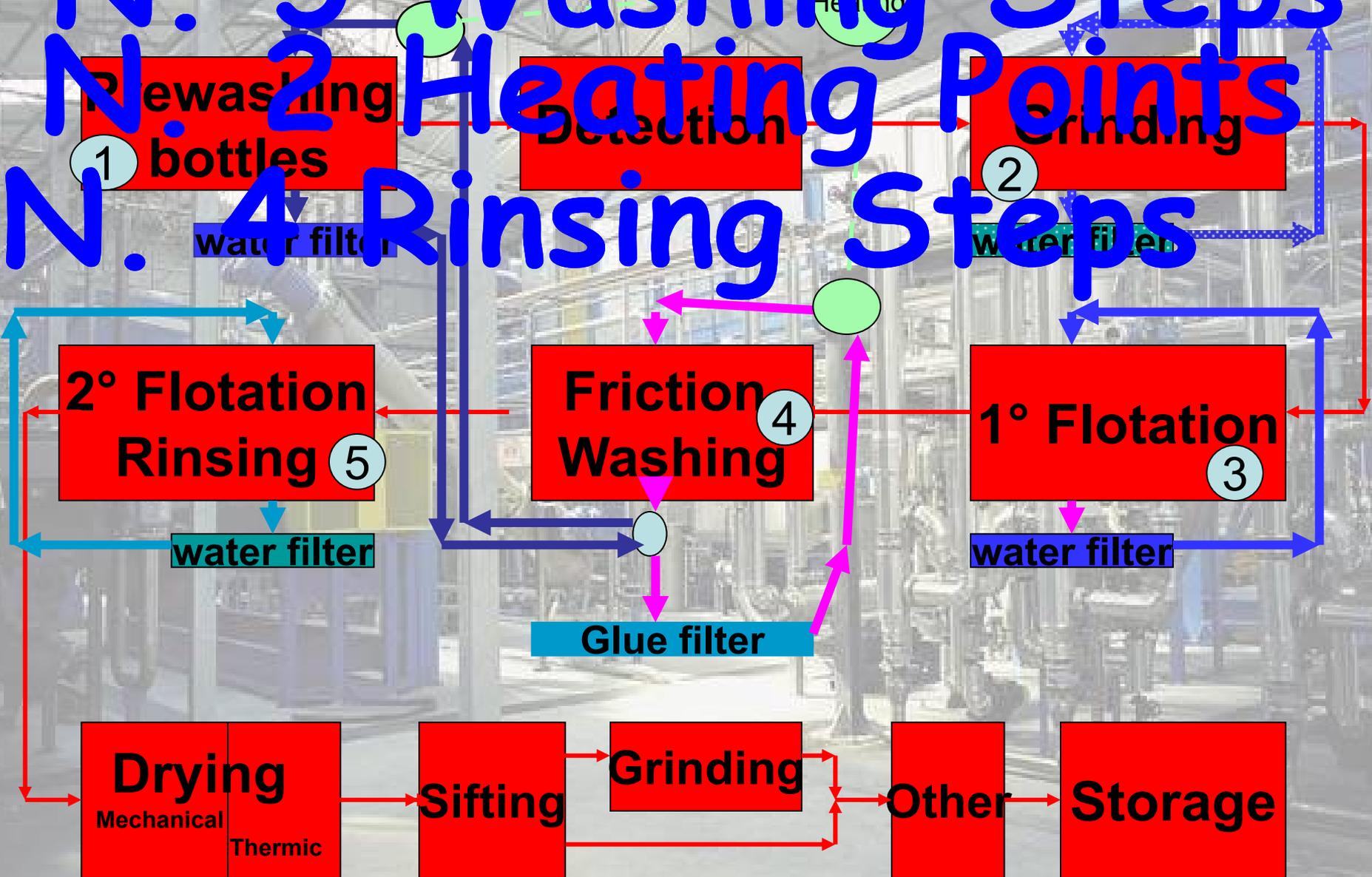
Control of Temperature

Control of Chemicals

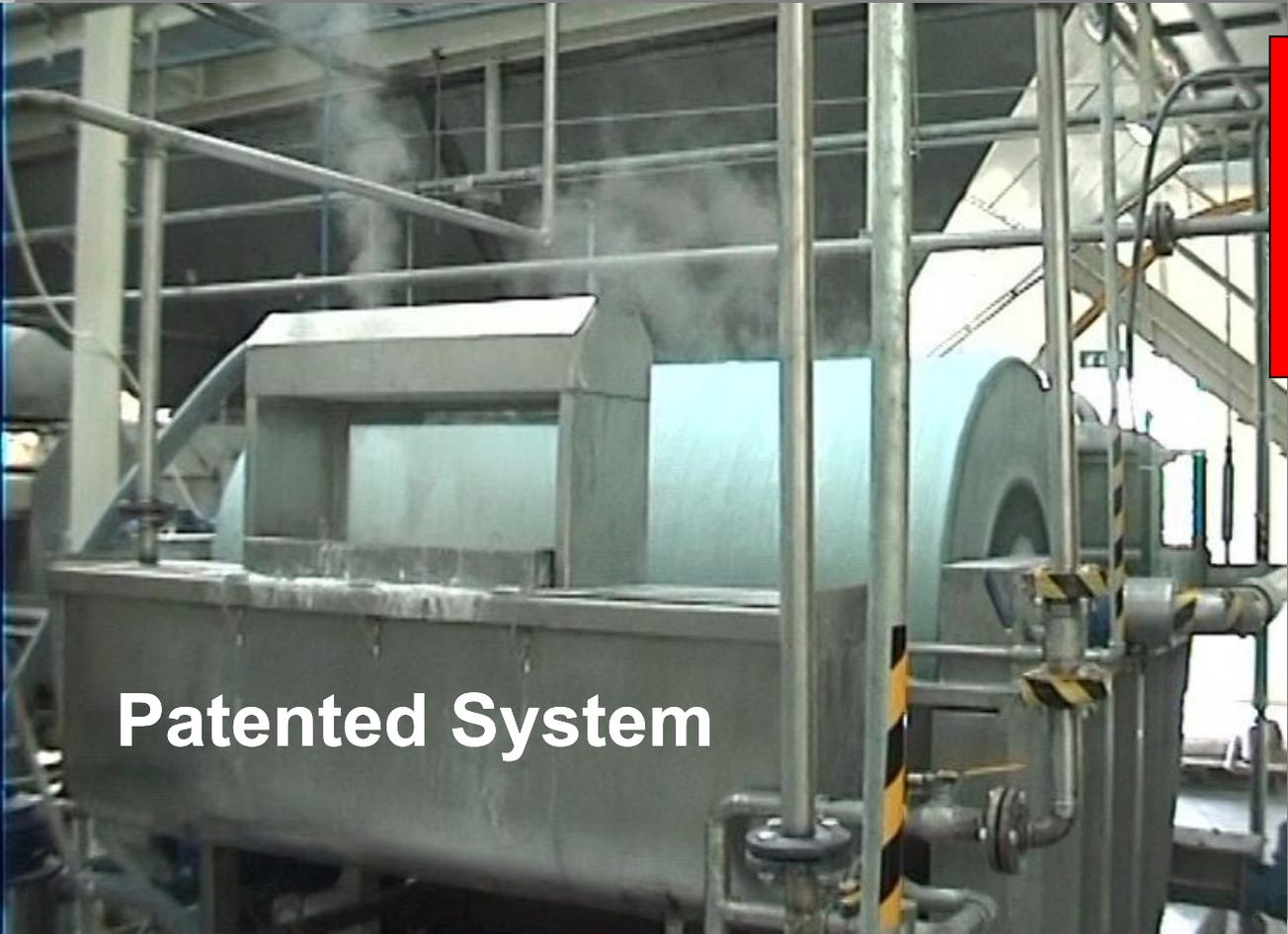
Patented

Process Water Flow-sheet

N. 5 Washing Steps
N. 2 Heating Points
N. 4 Rinsing Steps



Washing Process



Patented System

**Filters
for Glue**



Washing Process

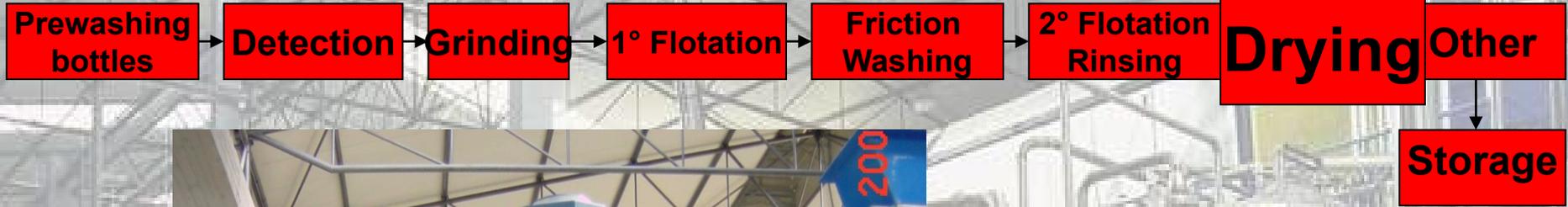


Reduced maintenance

Heat Exchangers

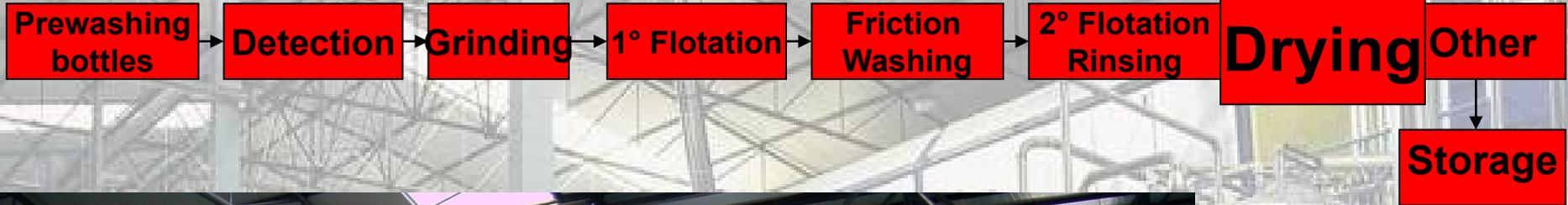


Washing Process



**Mechanical
Drying**

Washing Process



Thermic Drying

2 4 2001

Washing Process

Prewashing bottles

Detection

Grinding

1° Flotation

Friction Washing

2° Flotation Rinsing

Drying

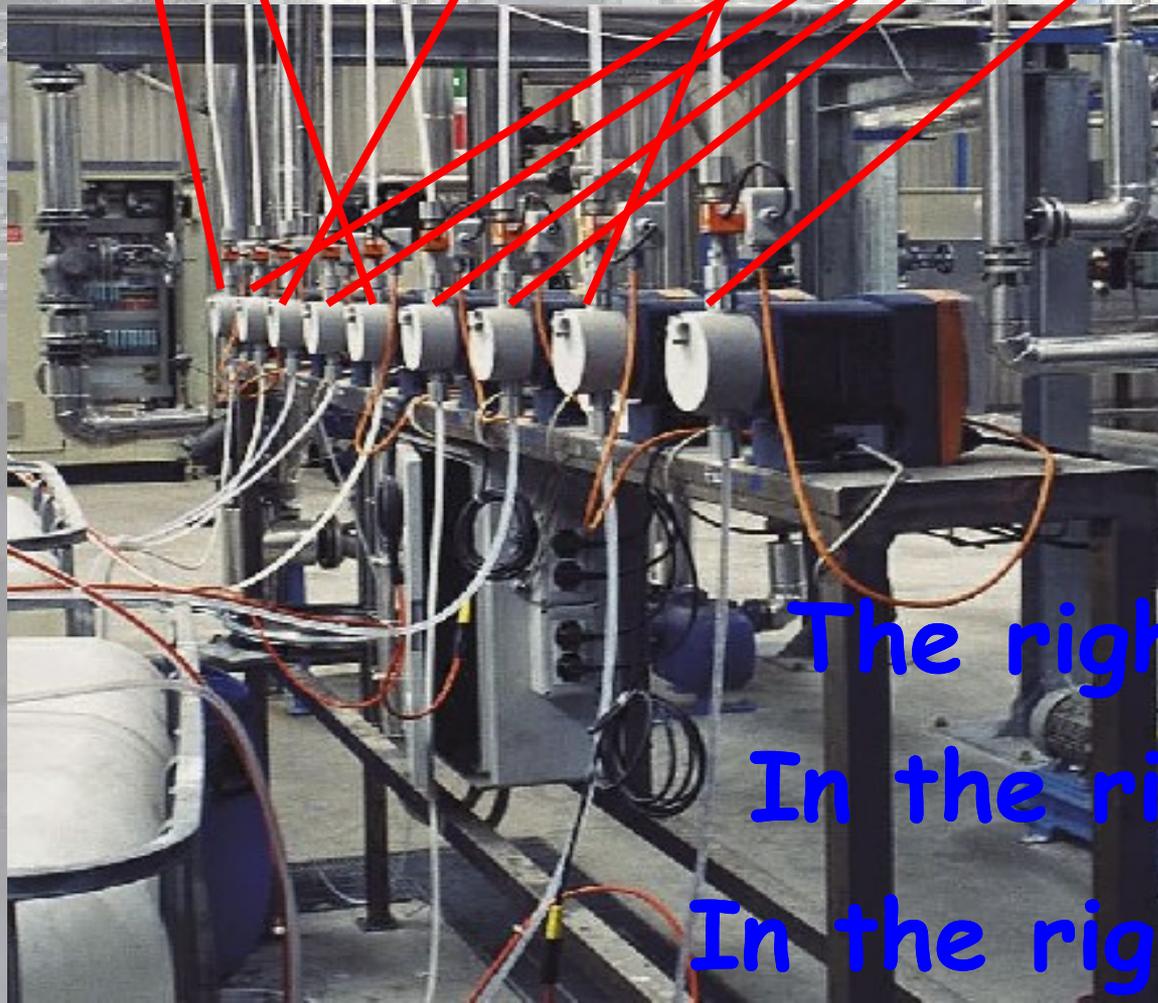
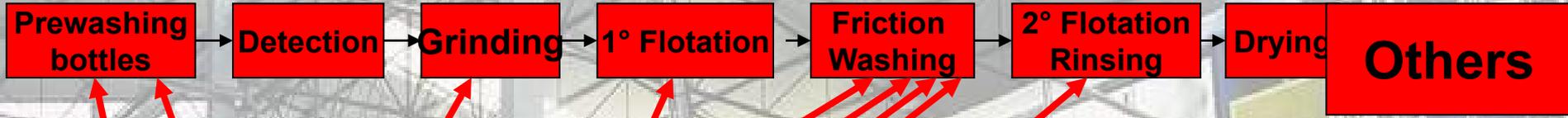
Other

Storage

Deduster
2° Metal
Detector



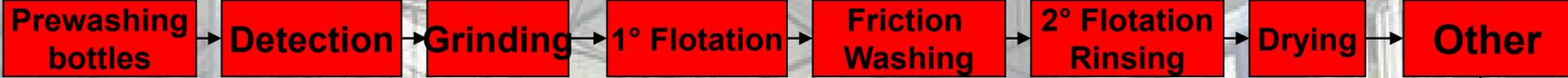
Washing Process



**Chemicals
Dosing
Pumps**

**The right Products
In the right Position
In the right Proportion**

Washing Process



HOMOGENISER SILOS

Storage

Big Bags Filling

