PAVING THE WAY FOR THE CHEMICAL LEASING GLOBAL SUCCESS STORY
DOING OUR BEST TO BRING NEW APPROACHES & INNOVATIVE AND SUSTAINABLE SOLUTIONS TO INDUSTRY...
In 2000s

Target - developing and transition countries

Closing the loops and sustainable industrial resource management

Cleaner Production

Win-win approaches for economy and environment
The conventional business model encourages inefficient use of chemicals and other resources. It can hinder innovation and often leads to unsustainable management of chemicals and other resources.
UNIDO acts as an initiator and a catalyst.

TO ENABLE CHANGE:
- EVIDENCE OF BENEFITS
- TRUST
- SUPPORT
NEW
PARADIGM

Payment based on the function of the chemical.

Provides not only chemicals but also expertise and services to optimize chemical use.

**CHEMICAL SUPPLIER**
A manufacturer/distributor/trader of chemicals

**CHEMICAL USER**
A company that uses chemicals in operations

**MOTIVATION IS ALIGNED:**
Both partners are interested in achieving better performance and desired quality by using LESS CHEMICALS

Pays for function/services rendered by chemicals and not for the volume.
RETHINKING
THE BUSINESS WITH CHEMICALS

THE BUSINESS MODEL
THAT MAKES A CHANGE

A concrete tool for efficient chemicals management that appeals to industry

Brings in additional know-how and redefines business in line with sustainability principles

Inspires continuous innovation and aligns the interests of partners
AND WE STARTED

INITIATING THE CHANGE

Chemical Leasing developed by the Austrian Ministry of Environment

2004
• **SAICM - Policy framework to foster the sound management of chemicals**

- **2006**
  - Definition of Chemical Leasing
  - 2007- Book
  - 2008- Toolkit
  - Sustainability criteria (with the Ministry of Environment, Germany)
  - Global studies (research) on application potential of Chemical Leasing in industry
  - Demonstration cases in different sectors
  - Capacity building of National Cleaner Production Centres (NCPCs)
  - Awareness Raising
Chemical Leasing can be applied in many industries and processes, ranging from food processing to car manufacturing and even agriculture.
Before Chemical Leasing:
Payment per kg of chemicals (coating powder) purchased

After Chemical Leasing:
Payment per coated m2 (washing machine)
Before Chemical Leasing:
Payment per t of treatment chemical

After Chemical Leasing:
Payment per m³ of purified water
Before Chemical Leasing: Payment per kilo of adhesive

After Chemical Leasing: Payment per bonded box (taking into account the box type)
Before Chemical Leasing:
Payment per kg of pesticides

After Chemical Leasing:
Payment per ha of agriculture area
(pest free)
**Reduction in chemicals:**
- Up to 90%
- Average 30-40%

**Water reduction / elimination:**
- Up to 90%
- Average 50%

**Energy and CO2 reduction:**
- Up to 65%
- Average ≈30%

**Other resources, plastic and packaging:**
- Up to 80%
- Average ≈60%

**DEMONSTRATED SAVINGS AND BENEFITS**

BENEFITS AND SAVINGS

*in the processes*
The Lima Declaration, adopted by UNIDO’s Member States: The foundation for a new vision of inclusive and sustainable industrial development (ISID)
GLOBAL MAINSTREAMING AND UPSCALING

- New Toolkit and Website (methodology, tools, new case studies)
- Embedding of Chemical Leasing in new programmes: Green Chemistry
- SMART 5 - Tool to better monitor the environmental, economic and social impact of the model (German Umweltbundesamt)
- Enhanced Promotion - Chemical Leasing presented at many high level events for industry & policy makers
- Chemical Leasing Declaration signed by Austria, Germany, Switzerland and UNIDO
Today we are pleased to announce:

1. 3 new countries join the Declaration
2. "Circular Economy business model"
3. Trends and Industry 4.0.
4. Mainstreaming in certain processes
5. Contribution to SDGs
6. Book: Success story in industry

Opportunities for promoting Chemical Leasing in Sustainable Cities, Industrial Parks, Sustainable Buildings, etc...
THANK YOU

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