



CIRCULAR CHEMICALS

*To improve their economic and environmental performance
companies should use chemicals more than once.*

Use of chemicals by industrial processes is often economically and environmentally inefficient



Purchase

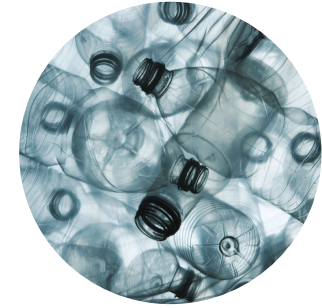
Most companies are not aware of the total cost of ownership of the chemicals they buy. Yet, **5 to 10 euros are spent additionally to manage chemicals** for each euro of chemical purchased.



Use

In most cases, chemical efficiency can be startlingly low, and the chemical yield is often less than 50%. This means that **half of the chemical becomes waste without once being used**.

In some industrial processes, chemical yield can be as low as 5%.

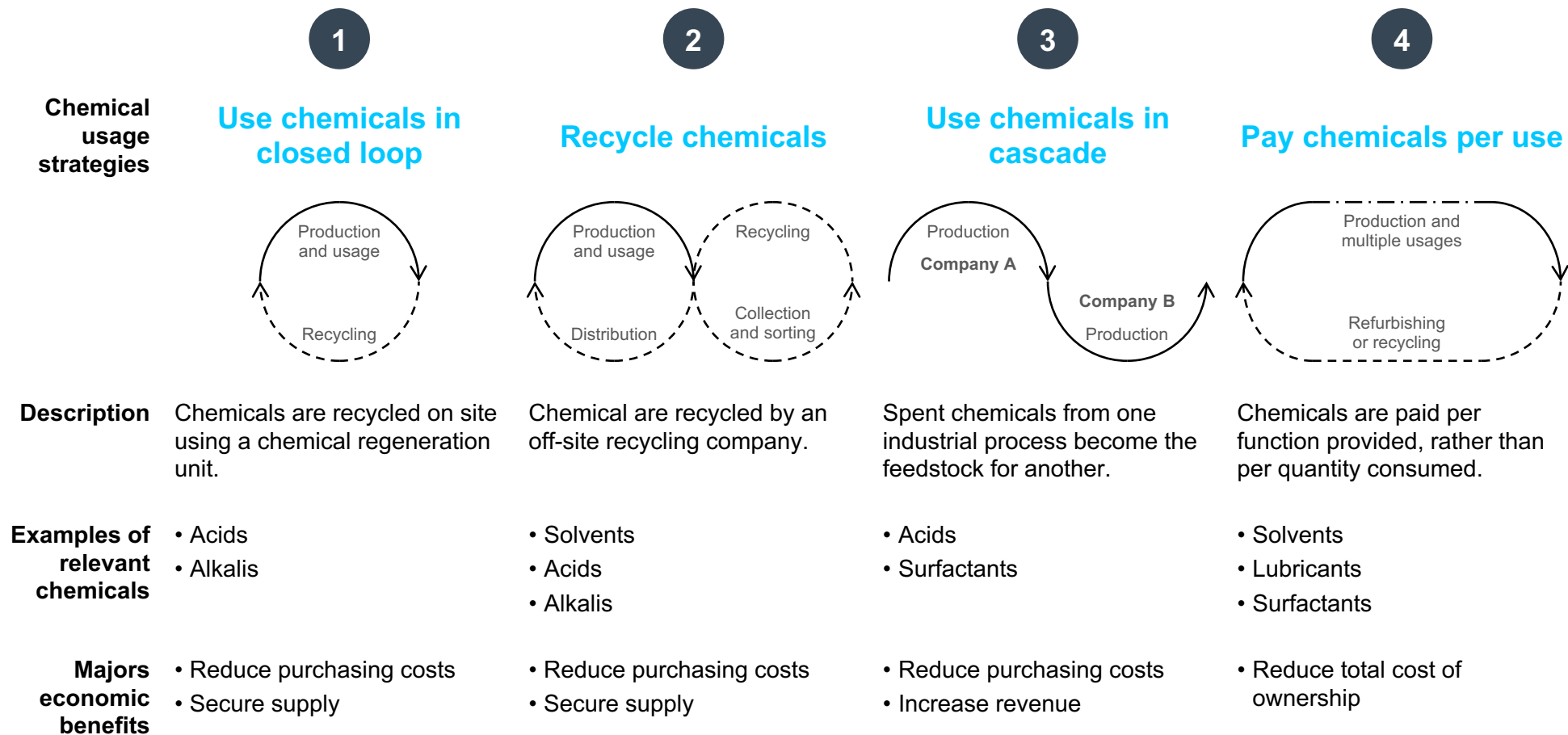


Dispose

For disposal purposes, spent chemicals have to be converted into water which can be discharged, and waste sludge that can be burnt or buried. This conversion consumes additional chemicals.

In the production of pharmaceuticals, at least **25 kg of emissions and waste** are generated for every kg of product.

To better capture chemicals value, companies should adopt strategies that use molecules more than once



To help our clients leverage circular sourcing strategies, we provide a set of services



Training

We deliver training on circular sourcing strategies. We leverage more than 150 examples and cases studies.



Capturing the value of chemicals

We assist our clients in identifying the most relevant circular economy business models for chemicals.



Turning waste into by-products

We use a digital platform to match waste supply from one industrial process with raw material demand from another, turning “waste into wealth”. The platform leverage big data, statistical data and machine learning technologies.



Leasing chemicals

We assist our clients switching to a pay-per-use business model.

We use a robust methodology, the Chemical Leasing Toolkit. The toolkit has been built on the UNIDO experience on chemical leasing projects.



Training

We deliver training on circular sourcing strategies. We leverage more than 150 examples and cases studies.

For a pharmaceutical group, we delivered a training on circular economy business models for chemicals to 30 representatives from sales, production, and purchasing departments.



Better capturing the value of chemicals

We assist our clients in identifying the most relevant circular economy business models for chemicals.

One of our clients, a consumer-packaged goods manufacturer, used hydrochloric acid for its surface treatment processes. Acid disposal costs were high. We identified a low-cost solution to remove impurities from the spent acid and extend its life. Our customer reduced spent acid disposal cost by 20%.



Search



WASTE



CHARACTERISTICS



SECTORS



MAP



GRAPH



4

FAVORITES



757

Available company



178 968 t

Total available



<input type="checkbox"/>	COMPANIES	IP ^	DISTANCE KM	FRUIT AND V
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<input type="checkbox"/>	Bördefleischwaren Gmbh Production of meat and poultry meat p... Hadmersleben		30	
<input type="checkbox"/>	Ceren Dönerproduktions- Und Fleischverarbeitung... Production of meat and poultry meat p... Berlin		127	
<input type="checkbox"/>	Fbg Fleischbearbeitungs Gmbh Production of meat and poultry meat p... Neuruppin		120	
<input type="checkbox"/>	Fleischhandelsgesellschaft In Berlin Und Brande... Production of meat and poultry meat p... Berlin		127	
<input type="checkbox"/>	"mago" Kohn Und Kempkesgmbh & Co. Kgwurst- Und ... Processing and preserving of fish, cr... Berlin		124	
<input type="checkbox"/>	Halberstädter Würstchen- Und Konservenvertriebs... Production of meat and poultry meat p... Halberstadt		48	
<input type="checkbox"/>	Kah-ra-man Dönerproduktions Gmbh Production of meat and poultry meat p... Bucketal / Zernsdorf			

Turning waste into product

We use a digital platform to match waste supply from one industrial process with raw material demand from another, turning “waste into wealth”. The platform leverage big data, statistical data and machine learning technologies

One of our clients, a global chemical company, disposed at high cost several chemical by-products. By leveraging our matchmaking platform, we identified two local customers for these by-products. Our client saved annually 400,000 euros.



Leasing chemicals

We assist our clients switching to a pay-per-use business model.

We use a robust methodology, the Chemical Leasing Toolkit. The toolkit has been built on the UNIDO experience on chemical leasing projects.

For one of our clients, a global consumer packaged goods manufacturer, chemicals total cost of ownership was increasing year after year. We identified that switching to a pay-per-use model would reduce the total cost of ownership of a high-volume chemical by 15%.



GATE C

*a consulting firm helping its clients to
capture the value of the circular
economy*

www.gateconsulting.com