

# **Best available techniques evolutionary development in the Republic of Kazakhstan: from the first steps to the Central Asian BAT Bureau**

**NJSC "International green technologies and investment projects center"**

Nur-Sultan, 2021





# Best available techniques

## Best

the most effective in achieving a high level of environmental protection;

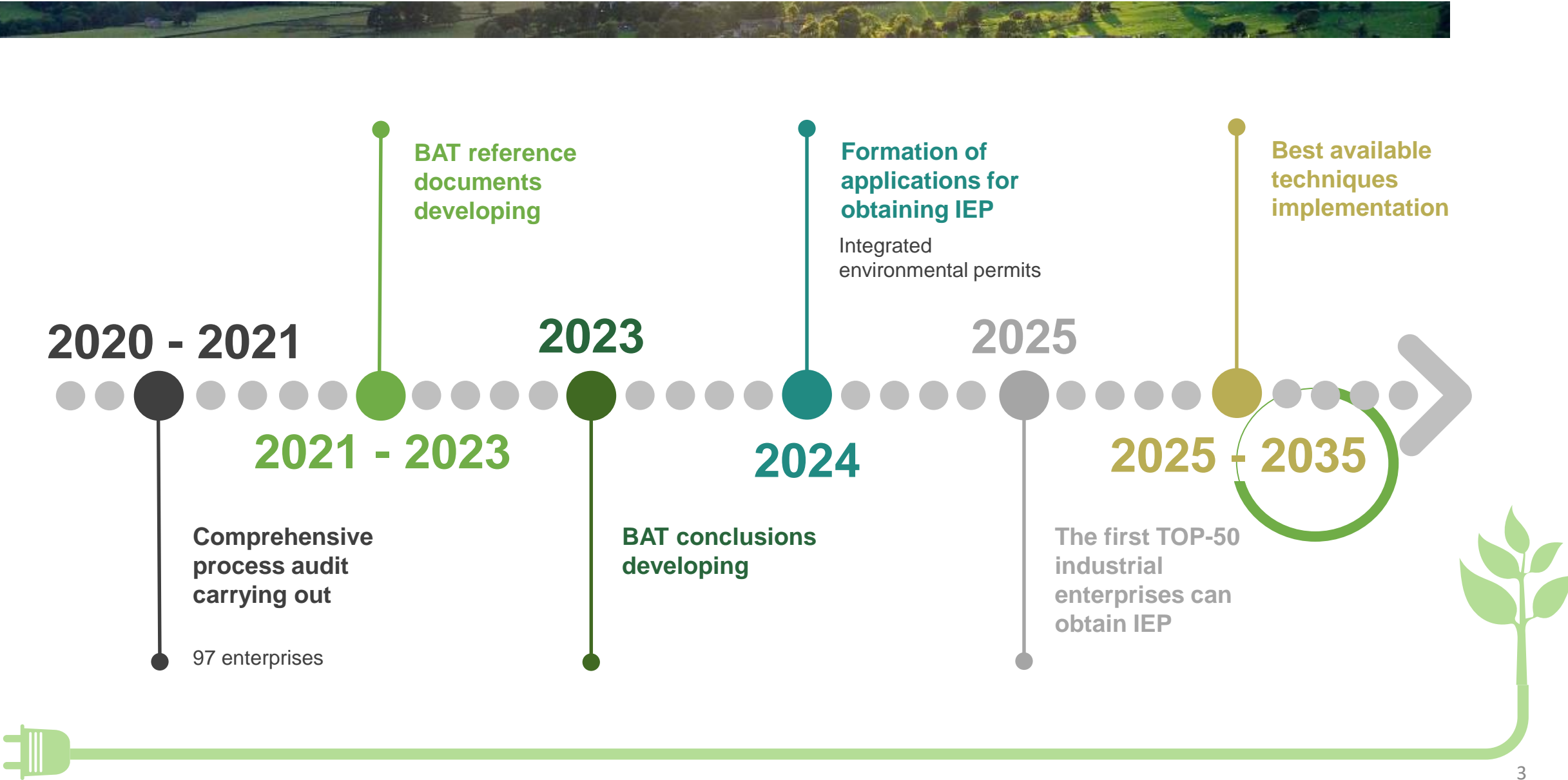
## Available

economically and technically accessible

## Techniques

technologies, methods, processes, practices, approaches and solutions in the management of an industrial facility.

# BAT road map



# Comprehensive process audit

- expert assessment of enterprises technological processes in various industries for compliance with the principles of BAT.

Electric power industry	34%
Non-ferrous industry	45%
Iron-and-steel industry	55%
Chemical industry	65%
Oil production	65%
Precious metal	72%
Cement industry	80%
Oil refinery	87%

Industries are at **different levels of technology readiness** for the transition to BAT





# BAT reference document

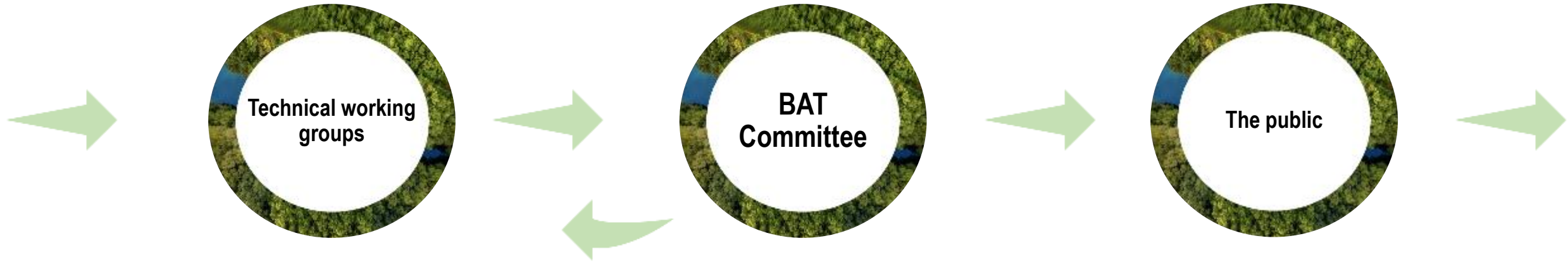
**BAT reference document** is a document, resulting from the exchange of information between parties concerned, developed for certain types of activities and including technological indicators associated with the BAT.

The BAT reference document defines the conditions for achieving the established values of the concentrations of pollutants using BAT.

The BAT reference document are to be reviewed every 8 years, considering the development of science and the achievements of technological progress.



# BAT reference documents



2021г.

**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH

1. Combustion of fuels in large plants for energy production
2. Refining of Mineral Oil and Gas
3. Production of inorganic chemicals
4. Production of cement and lime
5. Energy efficiency in the implementation of economic and (or) other activity (*international donation*)

до 2023г.

According to Annex 3 to the Environmental Code of the Republic of Kazakhstan: More than **30 BAT reference documents** are defined



Federal Ministry  
for the Environment, Nature Conservation  
and Nuclear Safety



# The Central Asian BAT Bureau



## EIPPCB

European Union 23 countries



## RF BAT Bureau

Russian Federation



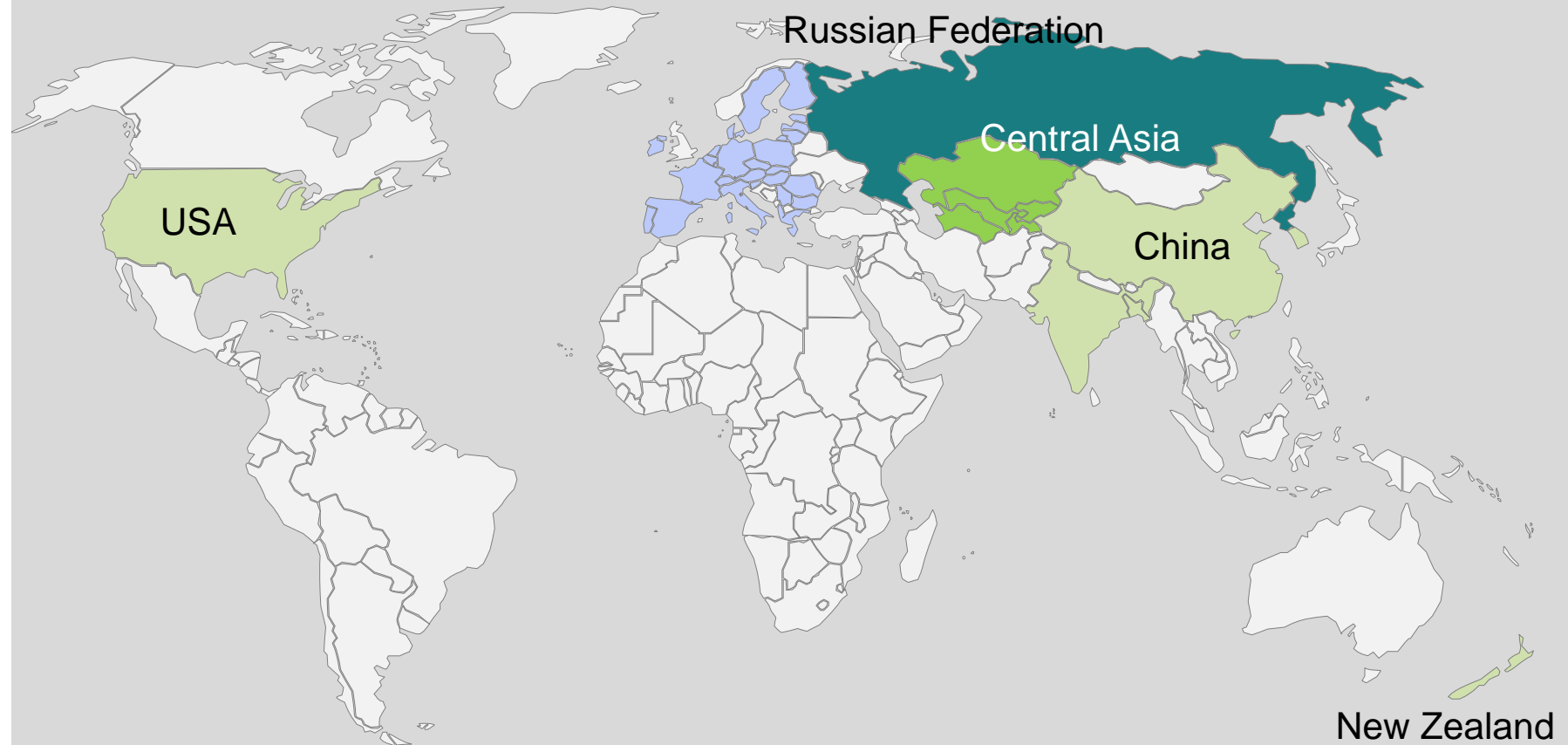
## Other BAT policies

United States of America  
People's Republic of China  
Republic of Korea  
Republic of India  
New Zealand



## CA BAT Bureau

Kazakhstan  
Kyrgyzstan  
Tajikistan  
Turkmenistan  
Uzbekistan





# Thank you for your attention

## For further information

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