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Seventh International Forum on Energy for Sustainable Development

Promoting Energy Efficiency in Kazakhstan

18 - 21 October 2016, Baku, Azerbaijan

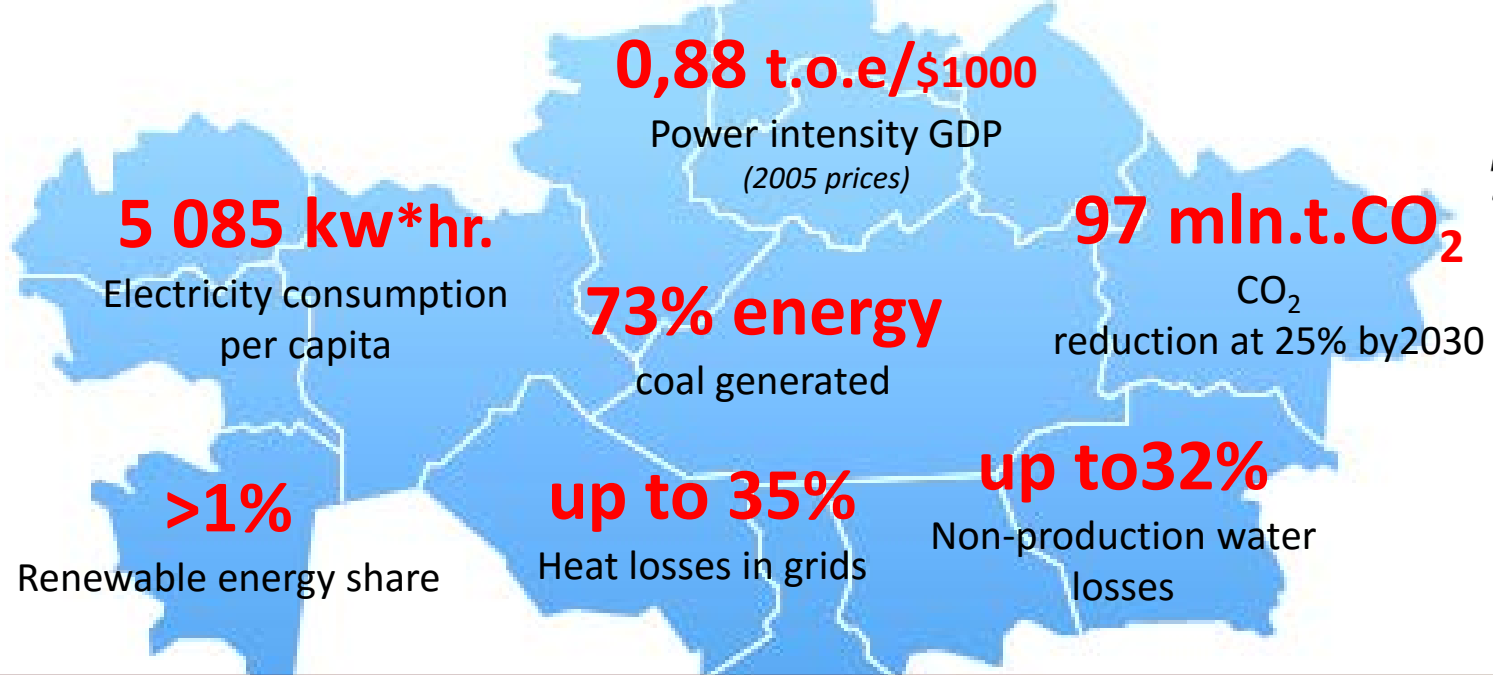
Irina Goryunova
Assistant Resident Representative
UNDP in Kazakhstan



CHALLENGES and KAZAKHSTAN'S POLITICAL VECTOR ON TRANSITION TO "GREEN ECONOMY"



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1992
Kazakhstan accepted obligations on realization of program and principles integration of Global Conventions (Rio de Janeiro)

2011
Kazakhstan stated the idea on inter-region partnership at the 66th session of the UN General Assembly. The idea is mentioned in the text of Astana Initiative "Green bridge"

2012
"Green bridge" partnership program for 2011-2020 was approved by all the states at the UN Conference on sustainable development (Rio + 20)

2016
Approval of the Paris Agreement by lower Chamber of Parliament (October 12).
RK goals to the Paris Agreement :
INDC – 15% absolutely (58 mln. t. CO₂ equiv.) and 25% if support is given (97 mln. t. CO₂ equiv.) by 2030

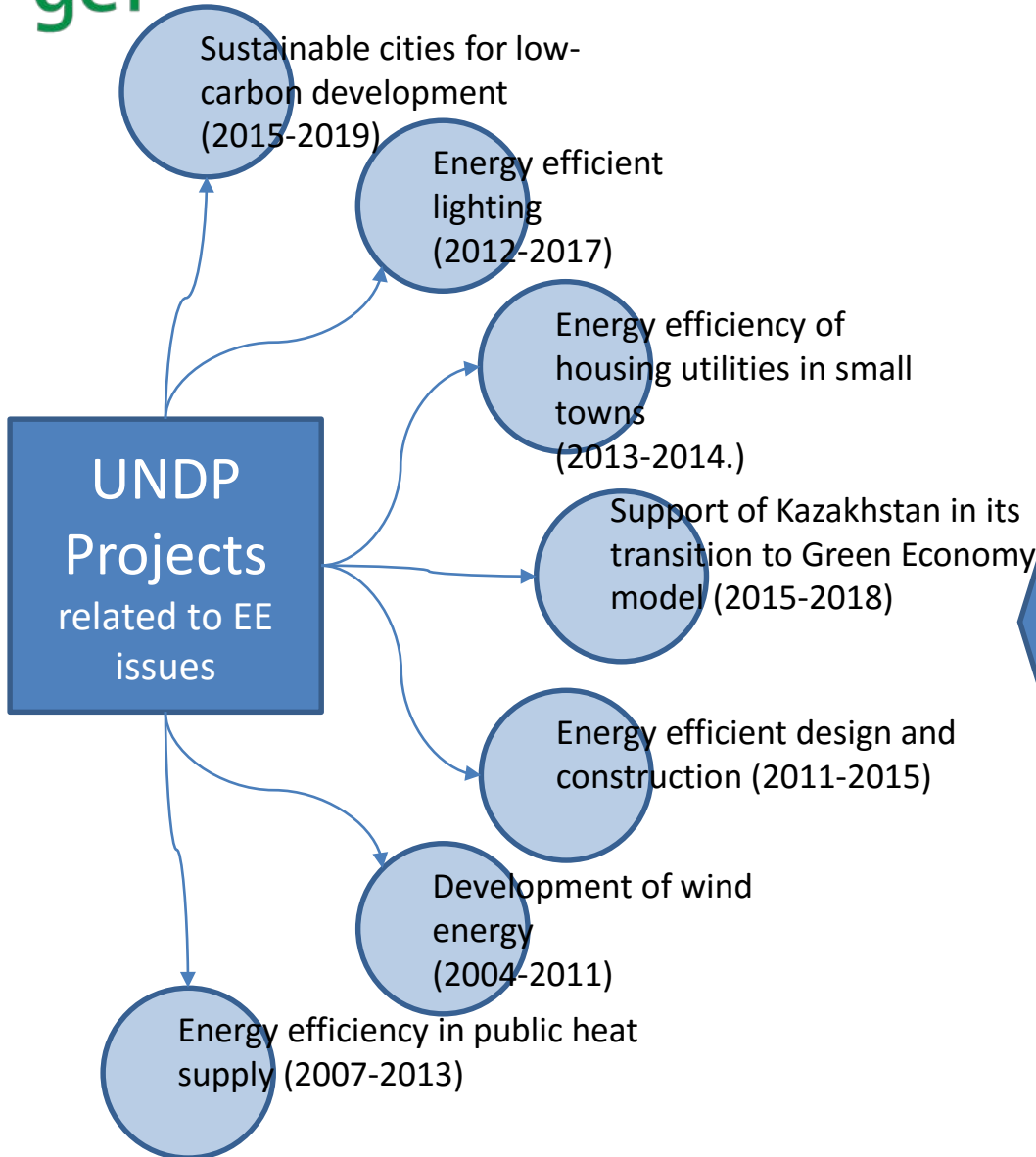
2017
Republic of Kazakhstan is preparing to host the International Specialized Exhibition Astana EXPO-2017 with the theme "Energy of the Future"



UNDP support of Kazakhstan Government on transition to “Green Economy”



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Through realization of Pilot projects the UNDP identifies institutional, legal, economic, social, and other barriers which prevent from implementation of steps on transition to “Green economy”.

Based on the gained Pilot projects experience the UNDP offers its recommendations to the Government of Kazakhstan in order to eliminate the identified barriers.

Pilot projects experience of UNDP-GEF and partners

Installation of automated heating units in buildings



Regulating of heat supply depending on air temperature outside

Investments per one building from \$10 000

Pay-back period from 3 to 5 years

Energy saving and CO2 reduction up to 35%

Where: institutions connected to central heating

Modernization of existing boiler-rooms to EE modern types



Increase of performance index of the fuel burnt

Investments per one school from \$15 000

Pay-back period from 4 to 6 years

Energy saving and CO2 reduction up to 50%

Where: institutions with no connection to central heating

Modernization of street lighting systems



Replacement of mercury containing lamps with LED with automated dimming function

Investments per one street lighting fixture from \$600

Pay-back period from 2 to 3 years

Energy saving and CO2 reduction up to 30%

Where: street lighting in cities

Modernization of indoor lighting systems



Replacement of mercury containing lamps with LED

Investments per one school from \$15 000

Pay-back period from 5 to 6 years

Energy saving and CO2 reduction up to 60%

Where: indoor lighting of all the public buildings

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Transition to sustainable urban transport



Streets reconstruction in terms of bicycle-pedestrian infrastructure

Investments per km \$300 000 - \$900 000

Pay-back period from __ to __ years

Increase of non-motor transportation, decrease of road accidents

Where: cities

Participation in passing the new Law on energy saving and energy efficiency.

Housing and utilities sector was included into the Law, added a new measure of energy saving – “thermal modernization of buildings”.

New sites cannot be put into operation without heat meters and automated heating units.

“Energy manager” is included as a part of systematic energy efficiency measures.

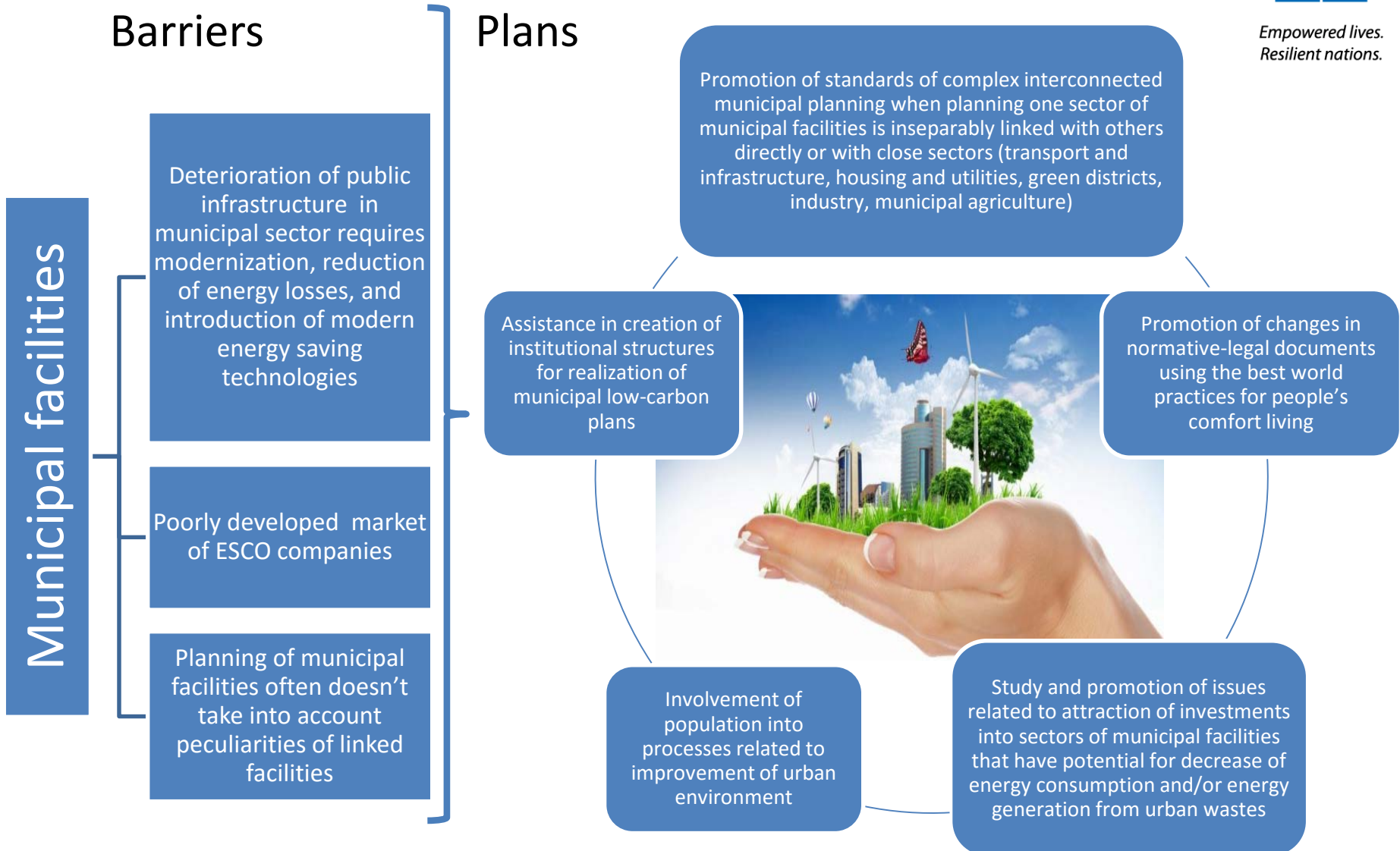
The first ESCO company formed.

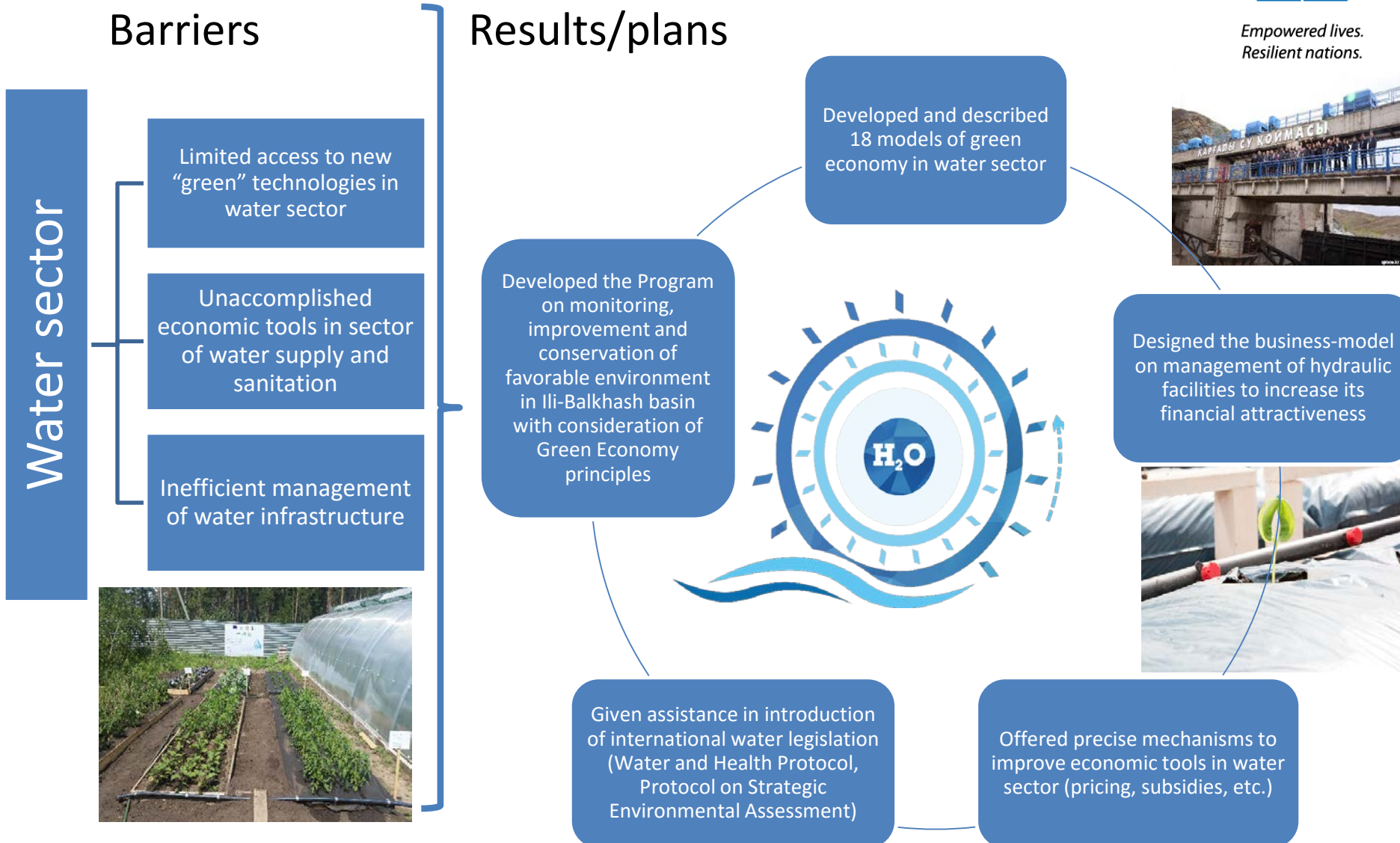
Assistance in developing a system for LED products quality control through creating testing laboratories.

Promotion of ESCO – market subject as a mechanism for realization of energy efficiency measures and technologies.

Assistance in development of normative-legal documents: SNiP, SanPin.

Developed new construction norms and regulations for improving municipal roads. Social propaganda of bicycle-pedestrian movement on streets and in media.



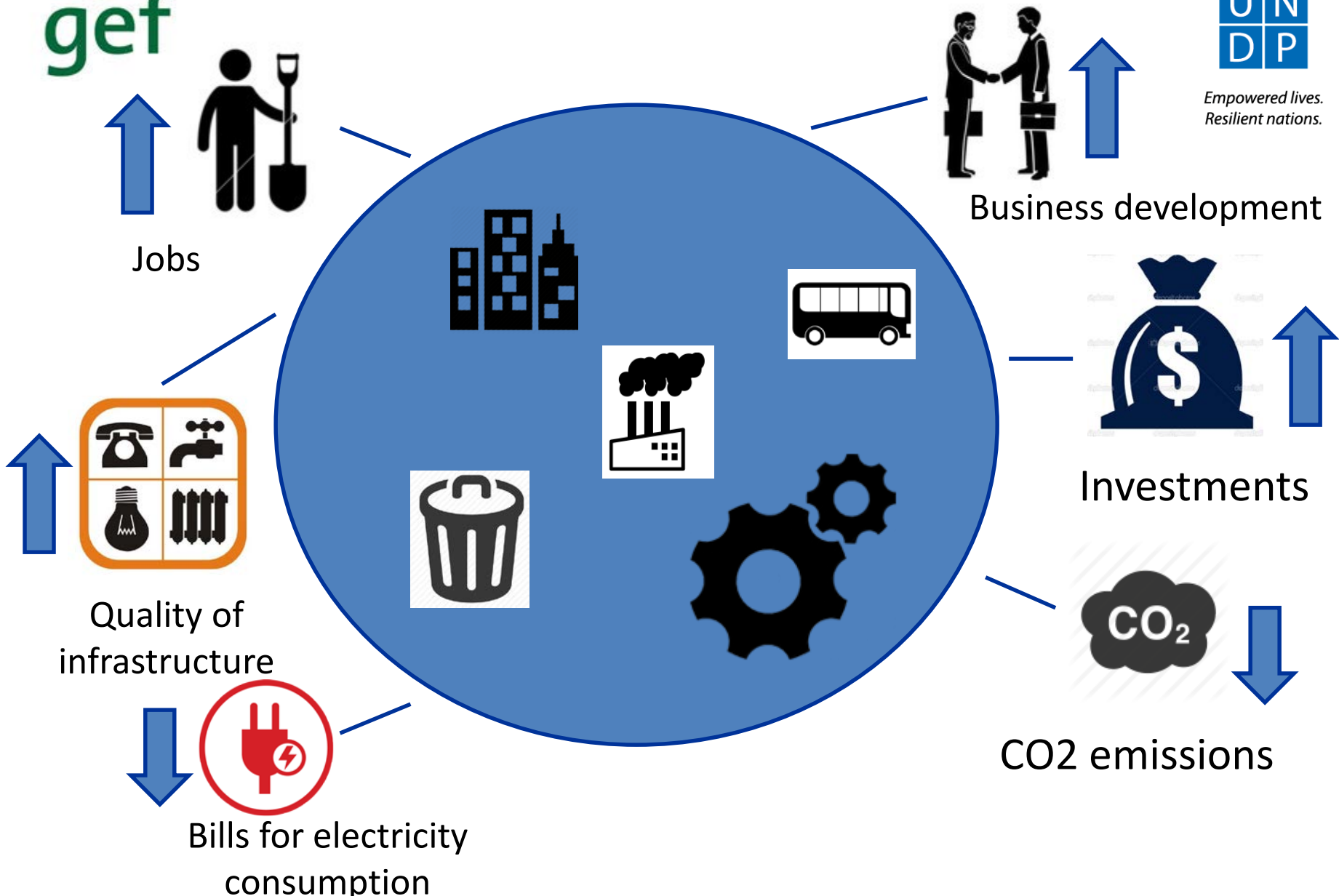




LOW CARBON PROJECTS



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THANK YOU FOR YOUR ATTENTION

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