

## Project to adapt provincial roads in readiness for climate change

Cambodia is a pilot country for the Pilot Program for Climate Resilience (see box). Under this program, the Royal Government of Cambodia has launched an innovative road project integrating forecasted climate change.

Egis is leveraging all of its expertise to take up this challenge.



### PROJECT OVERVIEW

Launched by Cambodia's government, the project concerns the country's main arterial road that serves the four provinces of Prey Veng, Svay Rieng, Kampong Chhnang and Kampong Speu. The project addresses the following issues and objectives:

- > preparing roads for climate change as it is currently foreseen;
- > coordinating the transport, water and environment sectors;
- > proposing new construction methods in the country;
- > raising local populations' awareness of climate change and educating them on the issue.

Egis has developed an innovative and appropriate approach to help reach these aims. The company is bringing into play its expertise with road projects in Cambodia, its experience in climate change studies carried out internationally, its know-how in involving local stakeholders, and its knowledge of regional climate issues.



### Focus on the Pilot Program for Climate Resilience (PPCR)

The PPCR is a programme helping 18 developing countries to integrate future climate change into their development plans.

It is financed by the Climate Investment Funds (CIF), investment funds building on four key programmes: development of clean technologies, sustainable forest management, development of renewable energies, and climate resilience.



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### IMPLEMENTING AN INTEGRATED APPROACH

Egis' proposed approach is centred on the following six points:

#### POINT 1: KNOW THE TERRITORY

Egis has drawn up vulnerability maps to ascertain the probability of flooding of roads as well as the impacts and sensitivity of local communities to such flooding.

#### POINT 2: ANALYSING AND ADAPTING ROAD STANDARDS

Egis has integrated and mitigated the risk of flooding on the road network by introducing some overall adjustments:

- > choice of materials (less sensitive to moisture content);
- > improved drainage (bridges, channels and agricultural water capture, etc.);
- > engineering of roadsides (height, protection against erosion, etc.).

#### POINT 3: IMPROVING THE EXISTING SITUATION

Egis has proposed measures to improve the existing roads. These address, for example, the collection and storage of water, improvement to water supply networks, as well as planting of trees. The measures are based on internationally recognised best practices.

#### POINT 4: IMPROVING EMERGENCY RESPONSE

To limit the impacts of floods and improve living conditions for thousands of victims fleeing the flooded areas, Egis has completed the emergency response plans for the provinces traversed by the project. For instance, the project includes introduction of:

- > an awareness raising campaign;
- > washing and toilet facilities for climate refugees, in six host villages;
- > an emergency centre in a seventh village to ensure people's safety, provide temporary shelter and improve communications in times of crisis.

#### POINT 5: ESTIMATING COST OF CLIMATE CHANGE RELATED ACTIONS

Drawing on its wide experience, Egis is able to estimate the costs of the practices and methods to be implemented for actions similar to those used for adaptation to climate change: Egis' portfolio of experience and practices comprises a wide range of services.



#### Proposing a sustainable response to a persistent problem and participating in the preparation of viable and enduring development.

Knowing the territory, its disadvantages and advantages, to:

- > anticipate the influence of climate change on the project's operating phase,
- > integrate the project into the population's local context.

Ensuring the long-term viability of the engineering works and structures, by:

- > use of solutions appropriate to the context and that will withstand climate change;
- > focusing on training of local populations.

#### POINT 6: TRAINING LOCAL POPULATIONS

Twenty people will be trained to ensure the long-term viability of the measures introduced during the project's operating phase. This includes management of emergencies, ongoing training methods and management of a database on climate change in Cambodia.

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