

الطرق السيارة بالمغرب
Autoroutes du Maroc

SUSTAINABLE DEVELOPMENT REPORT

**HIGHWAYS IN MOROCCO:
AN INCLUSIVE AND SUSTAINABLE
MANAGEMENT MODEL**

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ADM... SUSTAINABLE DEVELOPMENT IN FIGURES

Our dedication to achieving a harmonious coexistence of economic efficiency, innovation, environmental responsibility, and social well-being shapes the path towards a sustainable future, illuminating each step we take towards that goal.

This inaugural edition of the Sustainable Development Activity Report highlights our participation, and we are continuing to make progress in accordance with the New Development Model, the Kingdom's national policies, and international obligations.



M. Anouar BENAZZOUZ
THE MANAGING DIRECTOR

Green Program

+4 Million
Planted trees and shrubs.

4 Million M³
Water saved by using dry compaction.

Azur Program

1st
Inter-city network of charging stations for electric cars.

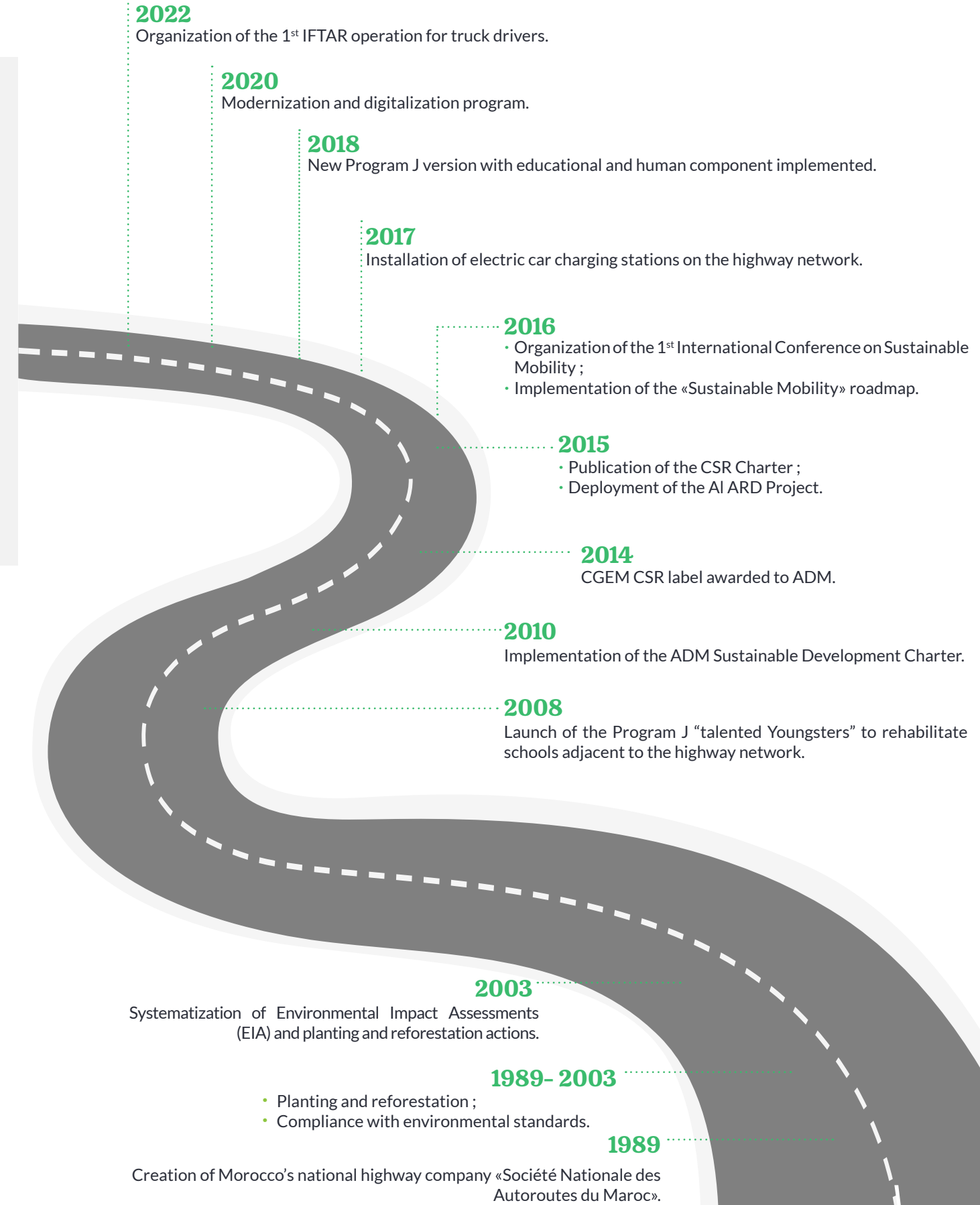
33
Electric car charging stations

Community Program

350
Renovated adjacent/ neighbouring schools.

53 000
Student beneficiaries.

ADM... THE STORY OF A COMMITTED ACTOR !





Rabat-Tangier highway

ADM... PROGRAMS ALIGNED WITH THE SUSTAINABLE DEVELOPMENT GOALS

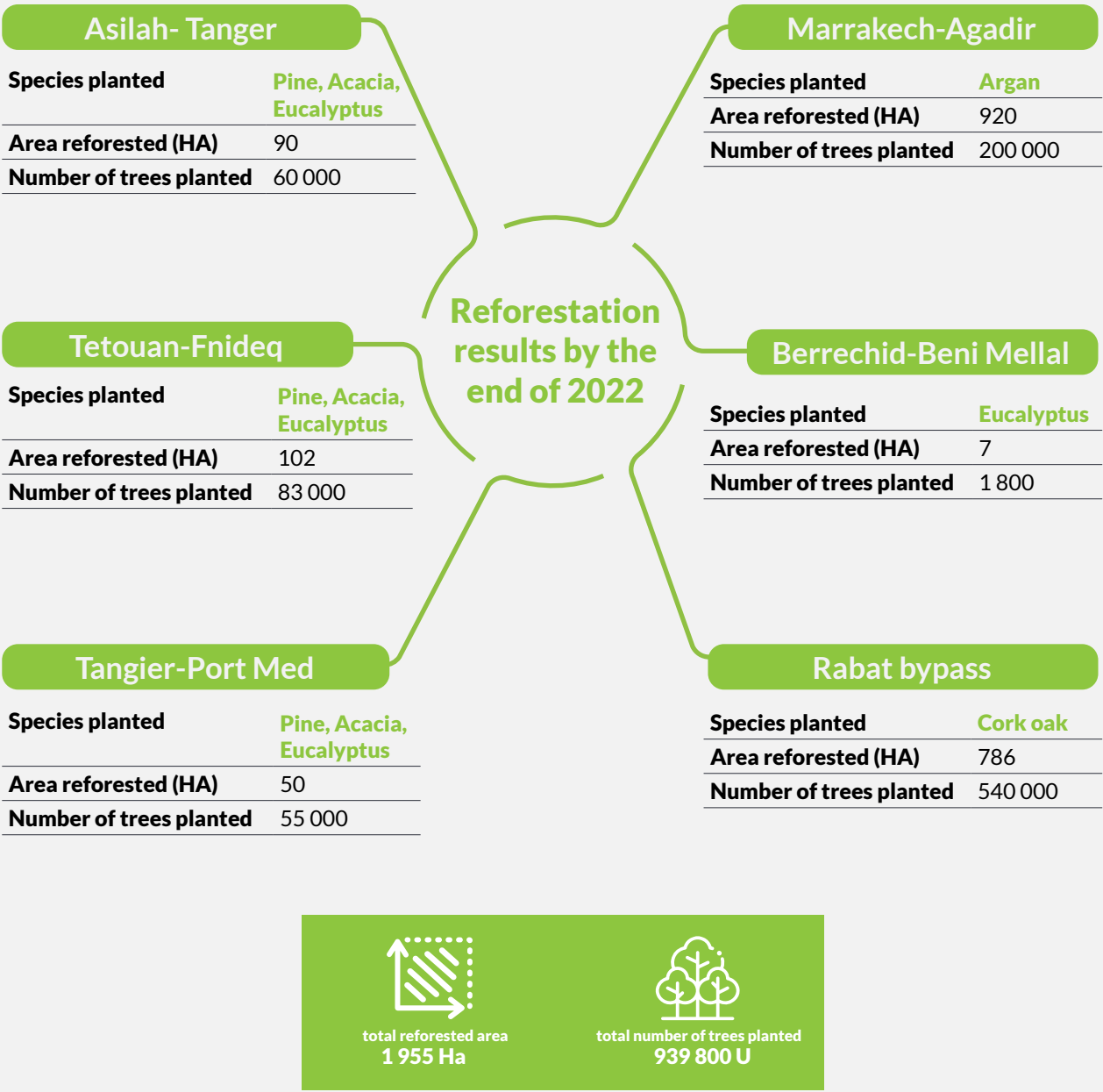
ADM, aware of the impact of climate change on its road infrastructures, has steadily matched its strategic objectives with the United Nations' sustainable development goals. This perspective has helped ADM to establish a global vision that completely integrates sustainable development concepts into all of its projects and programs. Adhering steadfastly to this strategy, ADM is always striving to execute initiatives within three programs that reflect its dedication to local communities and the environment.



01 Compensation reforestation

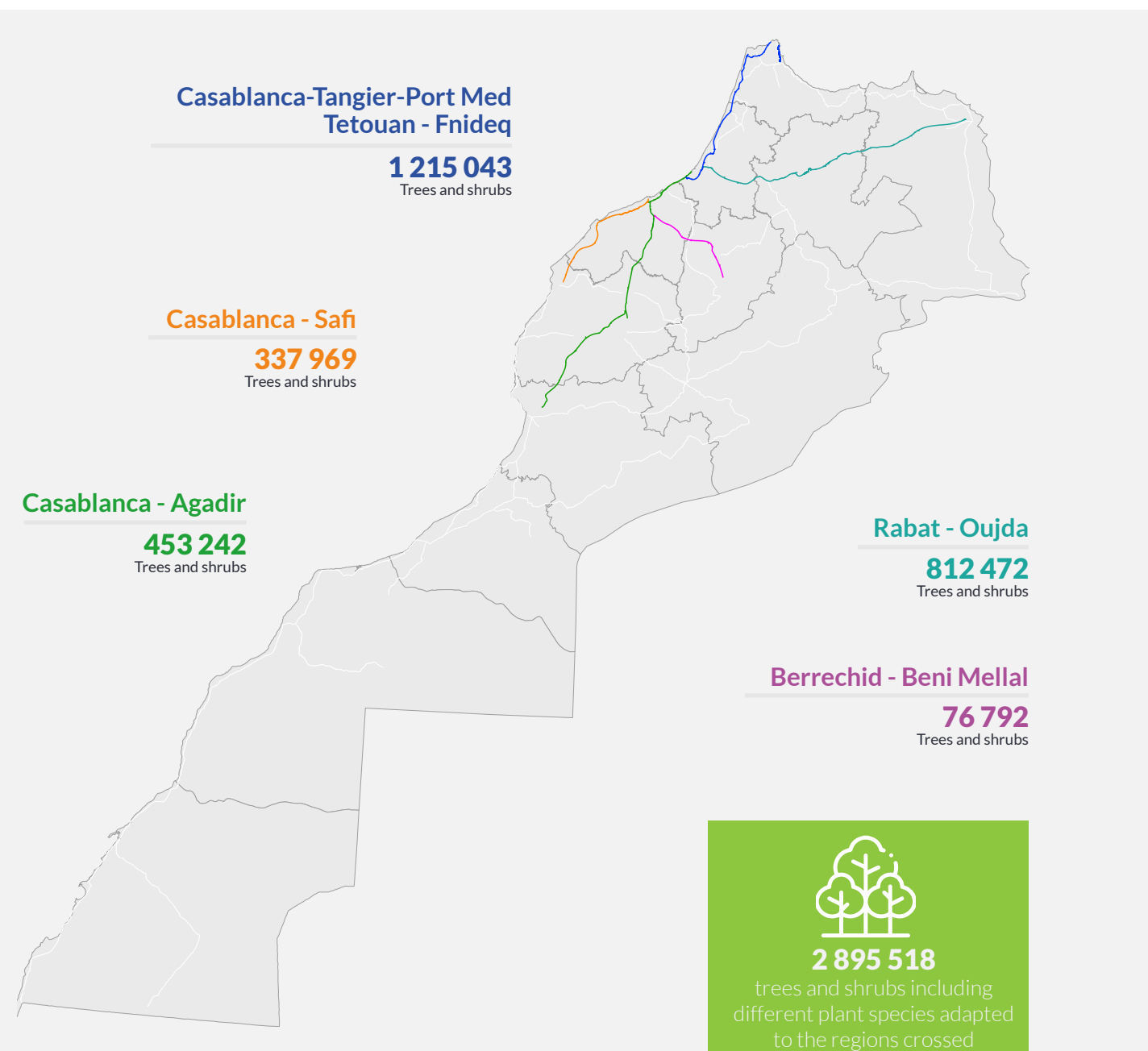
ADM continually strives to protect the environment and preserve natural resources through its green program, which includes: compensatory reforestation, landscaping of highways outbuilding areas and preservation of natural resources.

Compensatory reforestation has been carried out along all the highways that have been built, with areas far exceeding the deforested areas, and in the case of cork oak, 20 times more than the deforested area.



02 Landscaping green outbuildings

Since the first highways were built, the landscaping of their outbuildings (service areas, toll plazas, central medians, embankments, interchanges) has always been part of every infrastructure project, with a palette tailored to the regions traversed by the highway network and requiring minimal watering and upkeep. The goal is to integrate the roadway into its surroundings, restore the natural ecosystem, and increase the level of service supplied to users.



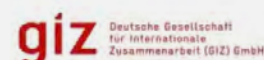
03 Al Ard program

An extensive program of research and development has been running for quite some time as part of a scientific collaboration between ADM and INRA (Institut National de la Recherche Agronomique). Biological engineering and incorporating native plant life into erosion control strategies are key to this effort.

Since 2015, and with a view to the large-scale application of the research work carried out and in accordance with a «DeveloPPP» type public-private partnership, ADM, IPRO CONSULT and the German Agency for International Cooperation (GIZ), have been pooling their efforts to integrate the rural population, neighboring the highway network, into a newly-developed, climate-adapted value chain. This has created jobs and improved rural incomes.

The Arab Fund for Economic and Social Development (FADES) is providing financial support to bring the project to fruition, all whilst combining greening, improved highway resilience and social progress in the areas crossed by the highway network.

Partners



Objectives

1. Improving the climate resilience of highway infrastructure ;
2. Create a new indigenous seed value chain to improve the incomes of local rural populations.

Results

2 Patents



Obtained through a program research with INRA. The object being the development of selection criteria, techniques and materials to succeed plant establishment and stabilization embankments.

2 methodological Manuals



Practical tools illustrating experiences acquired by ADM and serve as working reference to generalize the good practices acquired

Green
program



Workshop for sharing biological engineering techniques for soil fixation

The Al Ard program results today include



35 Ha

Of embankments treated by seeding.



150 000 plants

Produced annually to fix soils on the highway embankments after the developed of a plant nursery in collaboration with INRA.



10 000

Man-days of work created following the development of additional activities.



Production of plants at the nursery located in Kepitra in partnership with INRA

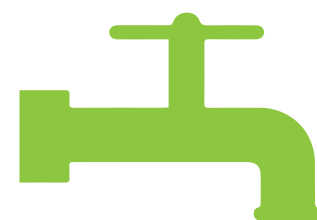


Viaduct over Oued Tahadart

04

Preservation of natural resources and biodiversity

Green Program



Water resources



Treatment of wastewater from service areas and reuse for watering green spaces.



Dry compaction : an innovative technique for building highway structures, saving 4 million m³.



Pre-treatment of rain waters in the running section in oil removal basins before discharge into the natural environment.



Materials

Recycling materials for road maintenance and upkeep.



Paper

The implementation of digital administrative operations and consumption optimization resulted in a reduction of 2 060 500 A4 sheets of paper in 2022 compared to 2019, representing an 81% reduction.

Biodiversity



Preserve the natural plant palette in the crossed ecosystems, including its utilization in the right-of-way.



Participate in programs to preserve endangered species in collaboration with the High Commission for Water and Forests (Great Bustard and Andalusian Turnix).



Provide corridors for the passage of small animals on freeways through hydraulic structures.

05 Energy transition

ADM confirms its commitment to sustainable energy development by undertaking real efforts such as the installation of photovoltaic panels at four sites and the replacement of traditional lighting with LED systems. These actions reflect our commitment to reducing our environmental footprint by utilizing renewable energy sources.

By using photovoltaic panels, ADM helps to generate green energy while lowering its reliance on fossil fuels.

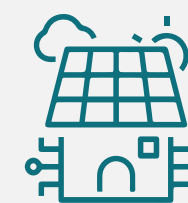


Photovoltaic panels installed near the service area



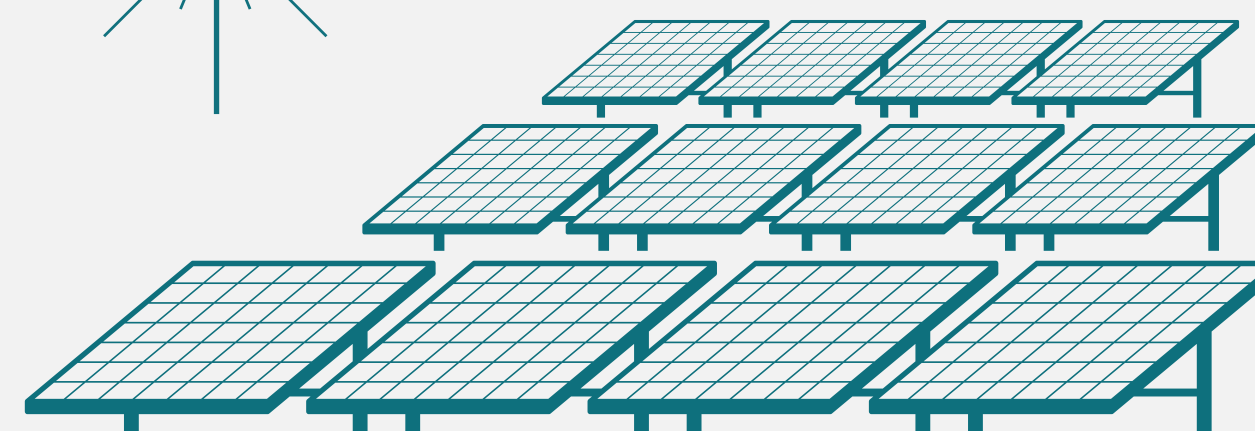
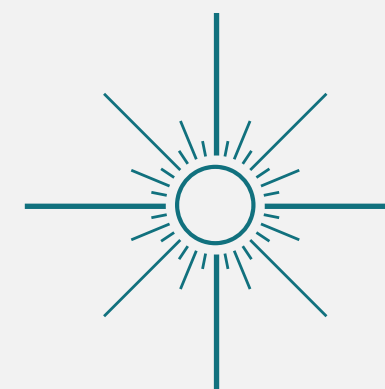
50%

Sites equipped with LED lighting for their street lighting.



04

ADM toll plazas are self-sufficient during the day thanks to solar power (photovoltaic panels).



06 Electric mobility

ADM has set up an intercity network of charging stations for electric vehicles, with a 90% localization rate on the Tangier - Agadir route. The average distance between each charging point is 26 kilometers.

This concrete measure reflects our commitment to encouraging more ecologically friendly transportation.

33 Electric charging stations



Installed throughout the highway network.



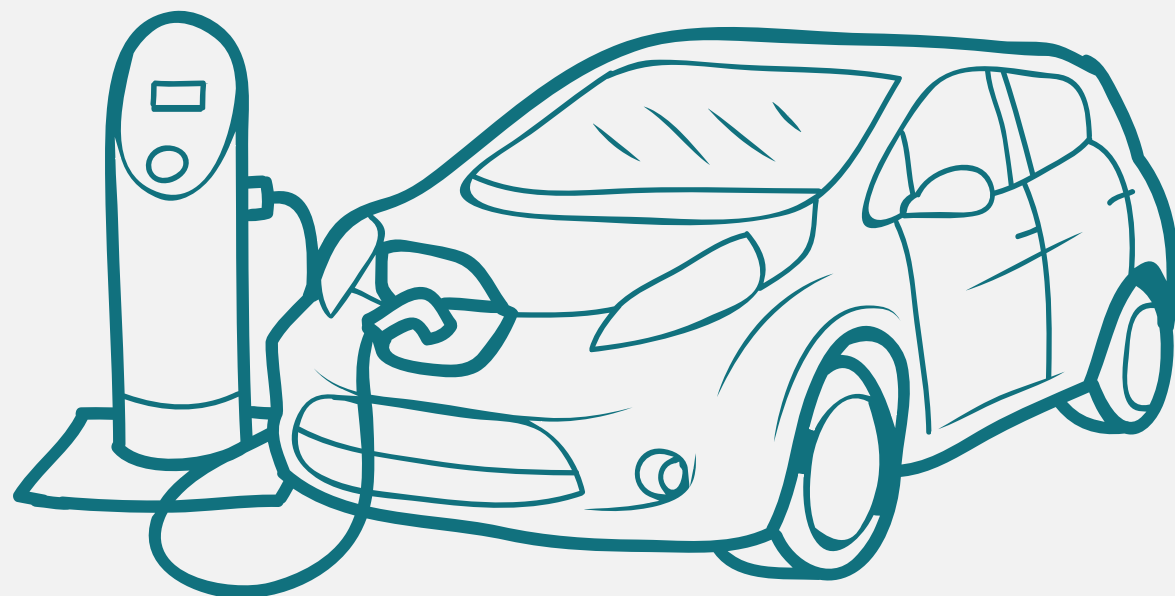
55%

Service areas are equipped with a dedicated system for electric vehicles.



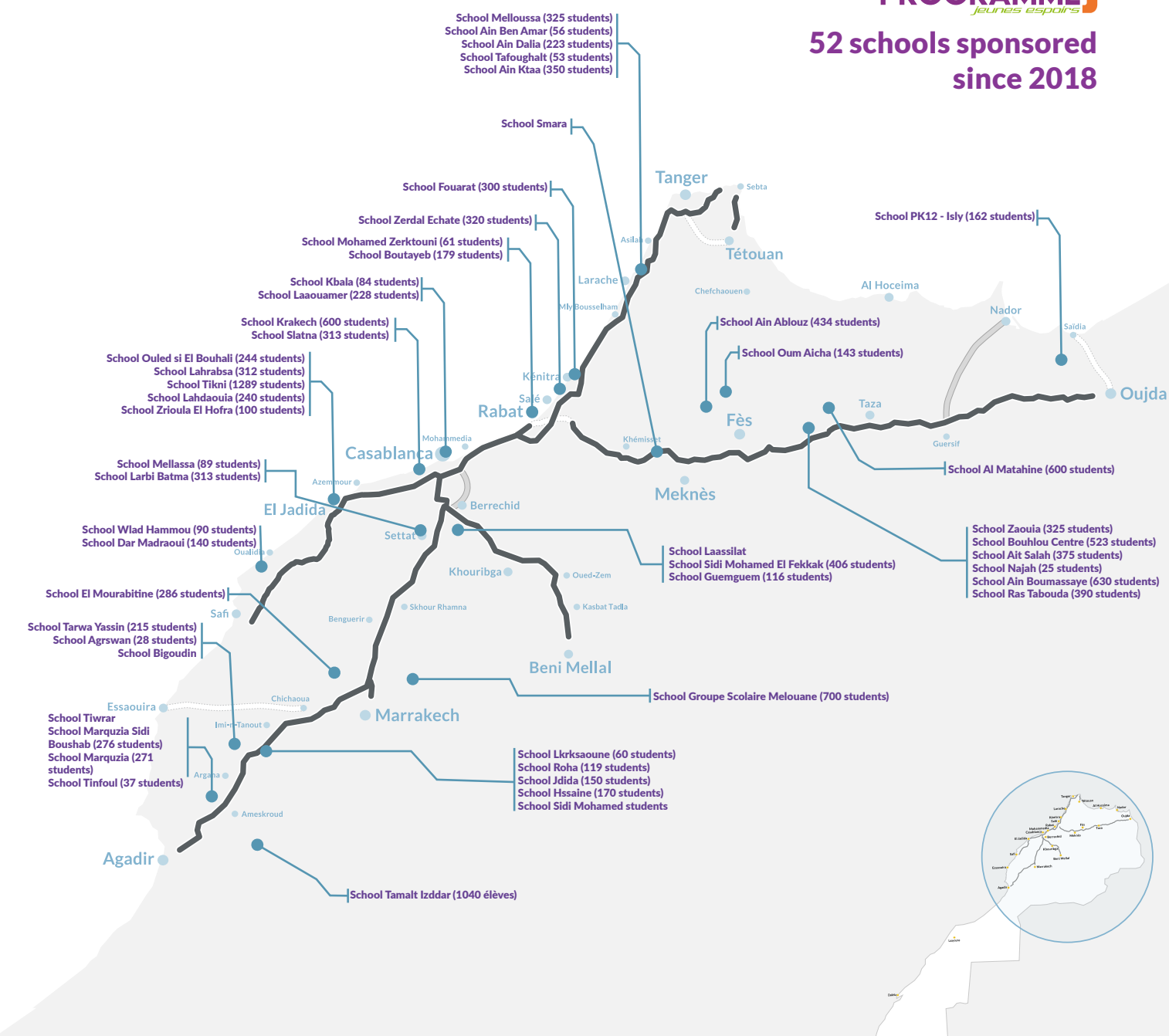
805 km

Length of highway equipped, 90% of which on the Tangier - Agadir route.

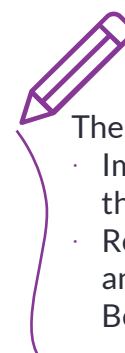


Electric vehicle charging station at the service area of the Rabat bypass highway

52 schools sponsored since 2018



In partnership with the Ministry of National Education, Preschool and Sports, ADM has been running the Program J Jeunes Espoirs ("talented Youngsters") since 2008, supporting rural schools bordering the national highway network.



The action continues in 2022 with :

- Improved sanitary conditions and access to digital resources for nearly 3 600 pupils, thanks to rehabilitation work carried out at 10 neighboring schools.
- Reconstruction of the adjacent «Larbi Batma» elementary school, with the creation and equipping of a digital classroom, as part of the project to build the new «Machraa Benabbou» interchange.

The J/Young Leaders program is the component of the Program J which supports young engineering students and researchers in R&D, through the establishment of frameworks of collaboration between the scientific world and the entrepreneurial world.



Partnership between ADM and Jadara Foundation for the development of commun actions allowing deserving high school graduates, from backgrounds with specific needs, to pursue their higher education by granting them, in particular, scholarships merits and providing tutoring sessions.

350

Rehabilitated schools

+ 53 000

Beneficiary children

+53 MDH

of Investments

18 000

Families

08 Highway safety awareness campaign

Iftar operation for truck drivers during the holy month of Ramadan

As part of its highway safety awareness campaign, ADM, in collaboration with the El Boughaz Association of Heavy Goods Vehicle Drivers (ABCPL), launched the first «Iftar» operation for heavy goods vehicle (HGV) drivers during Ramadan 2022. The goal is to emphasize the importance of taking breaks on the highway, particularly during the holy month, when a lack of sleep and decreased vigilance behind the wheel can lead to accidents.

Place of operation

Larache service area, direction Tanger.



Iftar basket distribution points

- MRE rest area at the Ksar Sghir interchange;
- The toll stations of Tanger West and Kenitra North.



Number of beneficiaries

Nearly 2,000 truck drivers.

#WHNA_FL'AUTOROUTE

First teaching series dedicated to highway safety



The first didactic series dedicated to highway safety, #whna_fl'autoroute, aims to improve drivers' conduct on highways and was developed and broadcast by ADM in 2020 based on the results of the first Moroccan barometer of responsible driving. It was revived in 2022.



THE 4TH EDITION OF THE INTERNATIONAL CONFERENCE ON SUSTAINABLE MOBILITY

By expanding its global outreach, ADM remains committed to advancing sustainable mobility. In an effort to support the development and sustainability of mobility, ADM has recently partnered with important organizations like the International Road Federation (IRF) and the European Association of Tolerated highways (ASECAP).

Following the tremendous success of the first three editions of the CIMD, ADM, in collaboration with the IRF, hosted the fourth edition of the CIMD and the IRF Annual Conference in Marrakech on October 6th 2022.



ADM ACADEMY



ADM ACTION

ADM's creation of the ADM Academy demonstrates their commitment to sustainable development. It represents a center of excellence dedicated to knowledge enrichment, skill development, and innovative research.

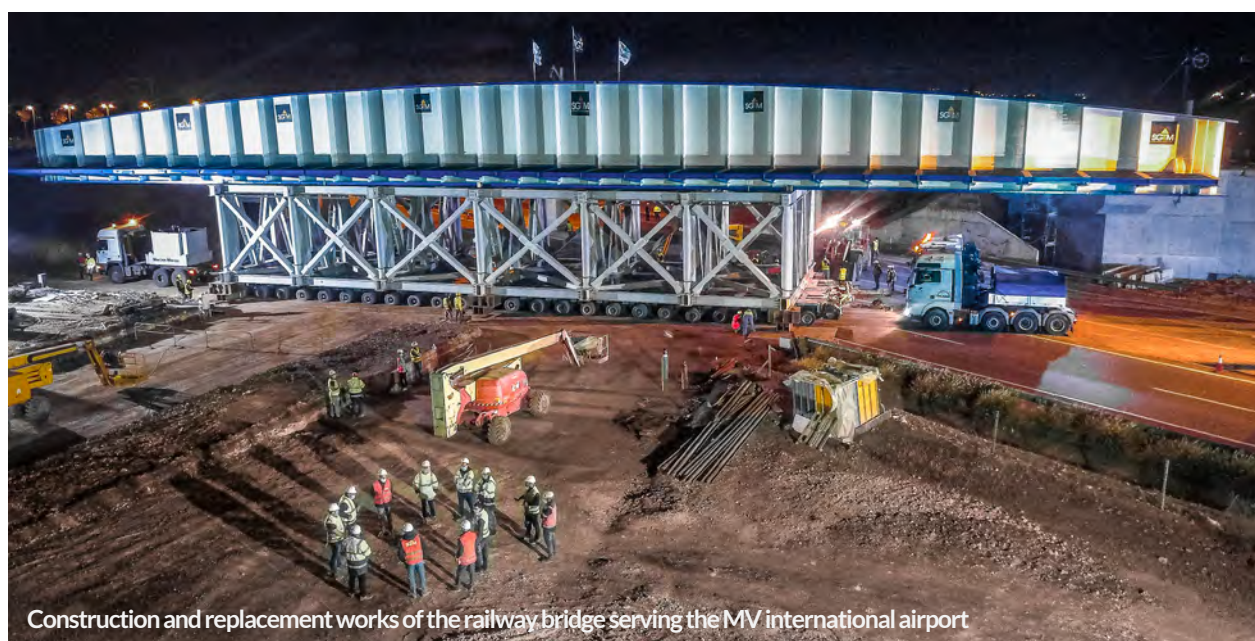
ADM Academy provides programs for personnel and beneficiaries from various national and international backgrounds, with a focus on Africa.



ADM PROJÉT



ADM Projet, ADM's technical expertise subsidiary, oversees infrastructure projects on behalf of ADM and other clients. It supports the players in its ecosystem, particularly in terms of technical expertise and the integration of new standards to achieve the highest levels of performance, with the goal of sharing ADM's three decades of experience in the implementation of major infrastructure projects.



Construction and replacement works of the railway bridge serving the MV international airport



Road maintenance work

THE JAWAZ PASS



ADM ACTION

The Jawaz digital technology can handle high traffic volumes, especially during peak hours, which can congest human toll collection lanes. The Jawaz solution thus allows a reduction in CO2 emissions from vehicle breaks during manual toll operations.



Distribution of Jawaz Tags for the benefit of highway users



Toll lanes equipped with Jawaz

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