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International Committee and Sustainability & Resilience Task Force Joint Meeting

October 3, 2022

Upcoming Events

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Today's Agenda

1. Introduction – Pedro Costa, Rene Moser
2. Summary of the EU Green Deal (Emanuela Stocchi, AISCAT, Italy)
3. Recap of the first ASECAP Sustainability Forum and preview of ASECAP's first sustainability report – Malika Seddi, ASECAP, Europe
4. Best practice of European concessionaires / highway operators
   - Christophe Boutin, ASFA, France
   - José Ramón Ballesteros, ROADIS, Spain / Portugal / worldwide
   - René Moser, ASFINAG, Austria
5. US insights (20 min)
   - Mark Muriello, IBTTA, U.S. Federal activities
   - Doug Feremenga, TCA, Programs in California
6. Discussion
7. Recap and next steps

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Joint meeting, October 3rd 2022
IBTTA International Committee and IBTTA Sustainability and Resilience Task Force

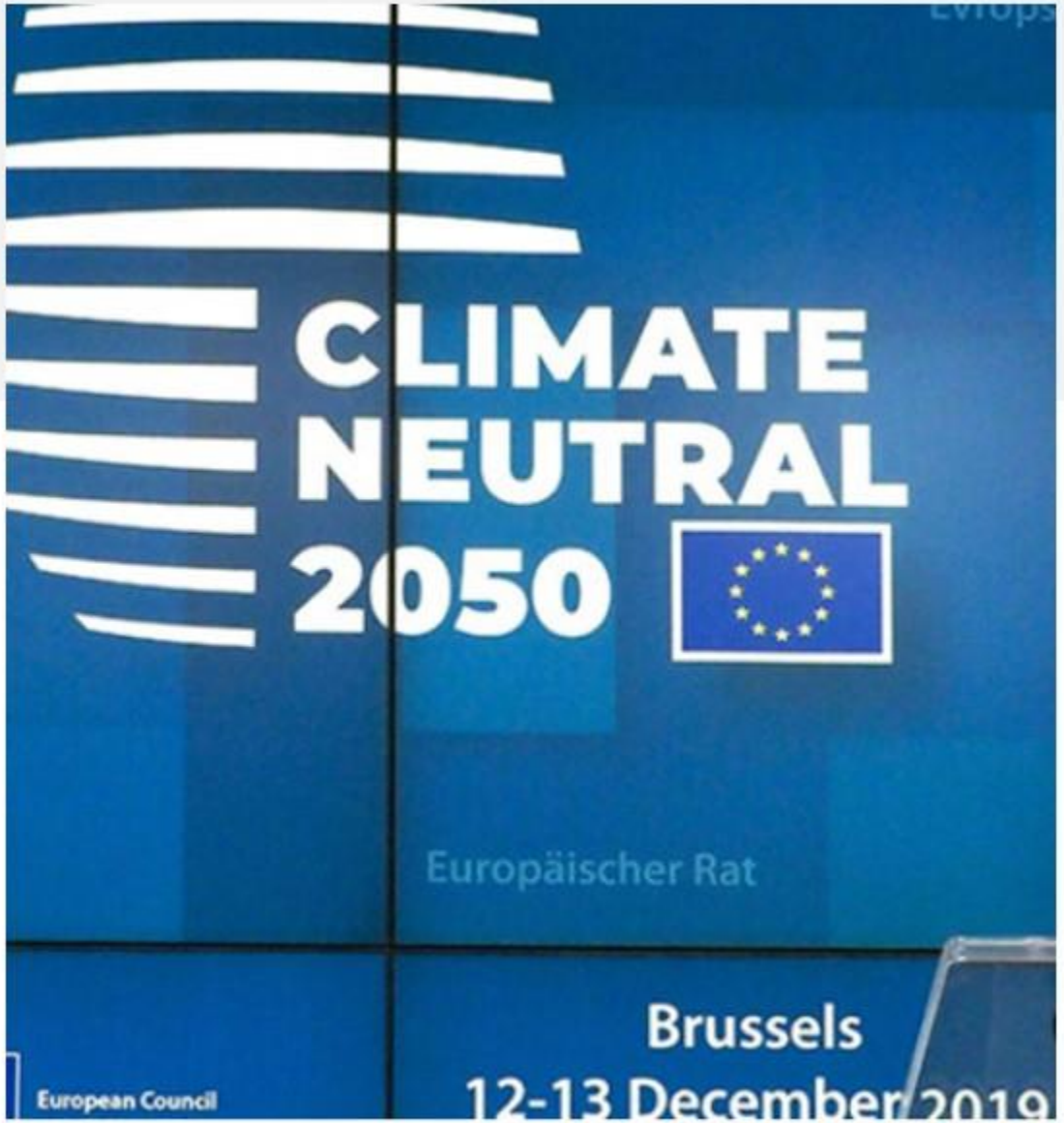
The EU Green Deal Political and Legislative Framework: A Path Towards Decarbonization Goals

Emanuela Stocchi
AISCAT Director of International Affairs
IBTTA Past President

Climate policy highest priority in Europe

EU Green Deal in 2019 as a political strategy

- **making Europe the first climate-neutral continent by 2050, in compliance with the Paris Agreement and with the United Nations SDGs;**
- **reaching this objective will require a transformation of Europe's society and economy, as well as significant investments from both the public and the private sector.**



Source: EU Council https://www.consilium.europa.eu/en/

Climate policy highest priority in Europe

EU "Fit for 55" in 2021 to translate the Green Deal into law:

- **set of 13 proposals to revise climate, energy and transport related EU legislation;**
- **target: reducing greenhouse gas emissions by 55% by 2030 as an intermediate step towards 2050 climate neutrality.**

Source: https://www.regionieambiente.it

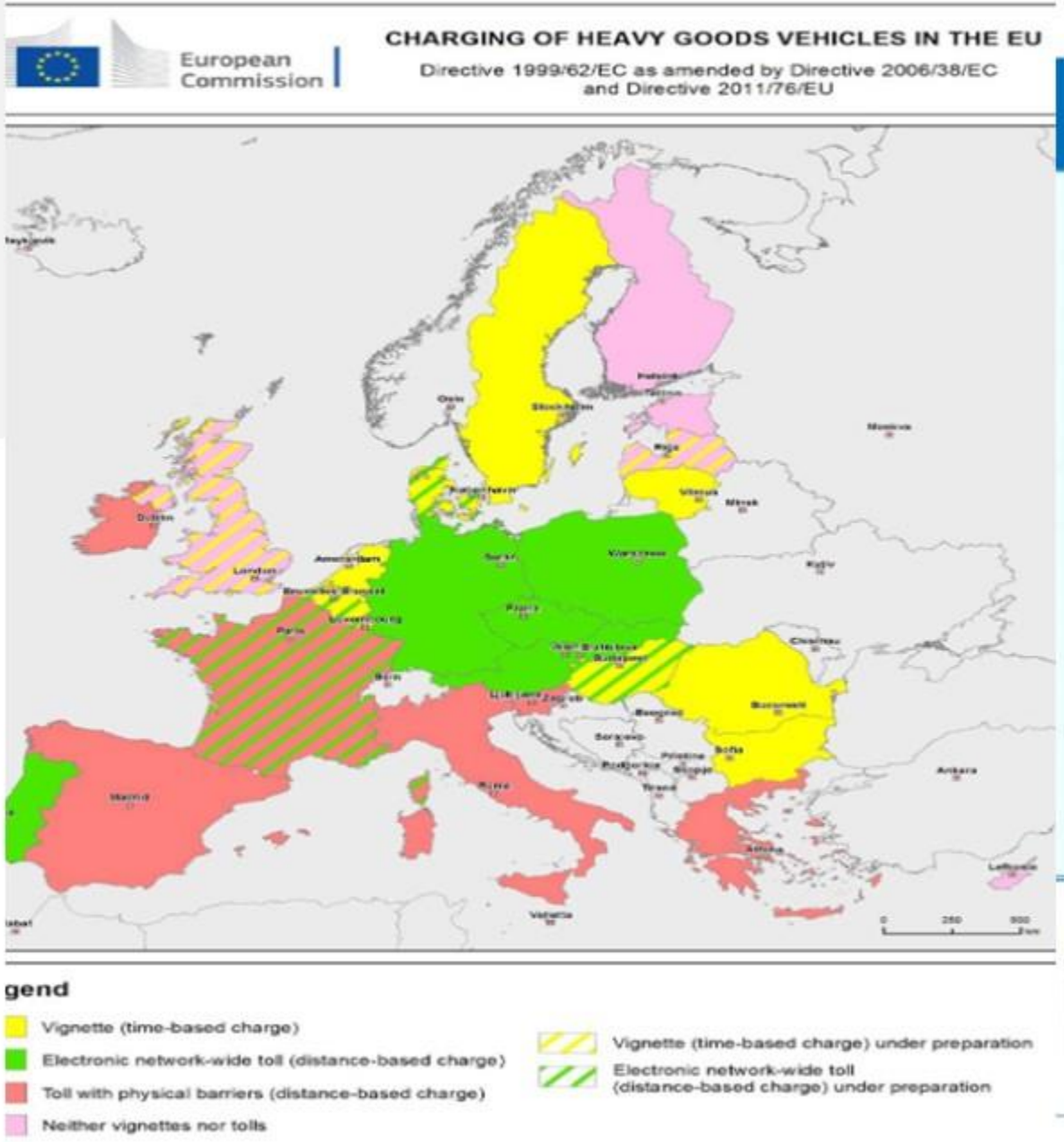
Toll highways' sector response to the EU Green Deal and «Fit for 55» packages

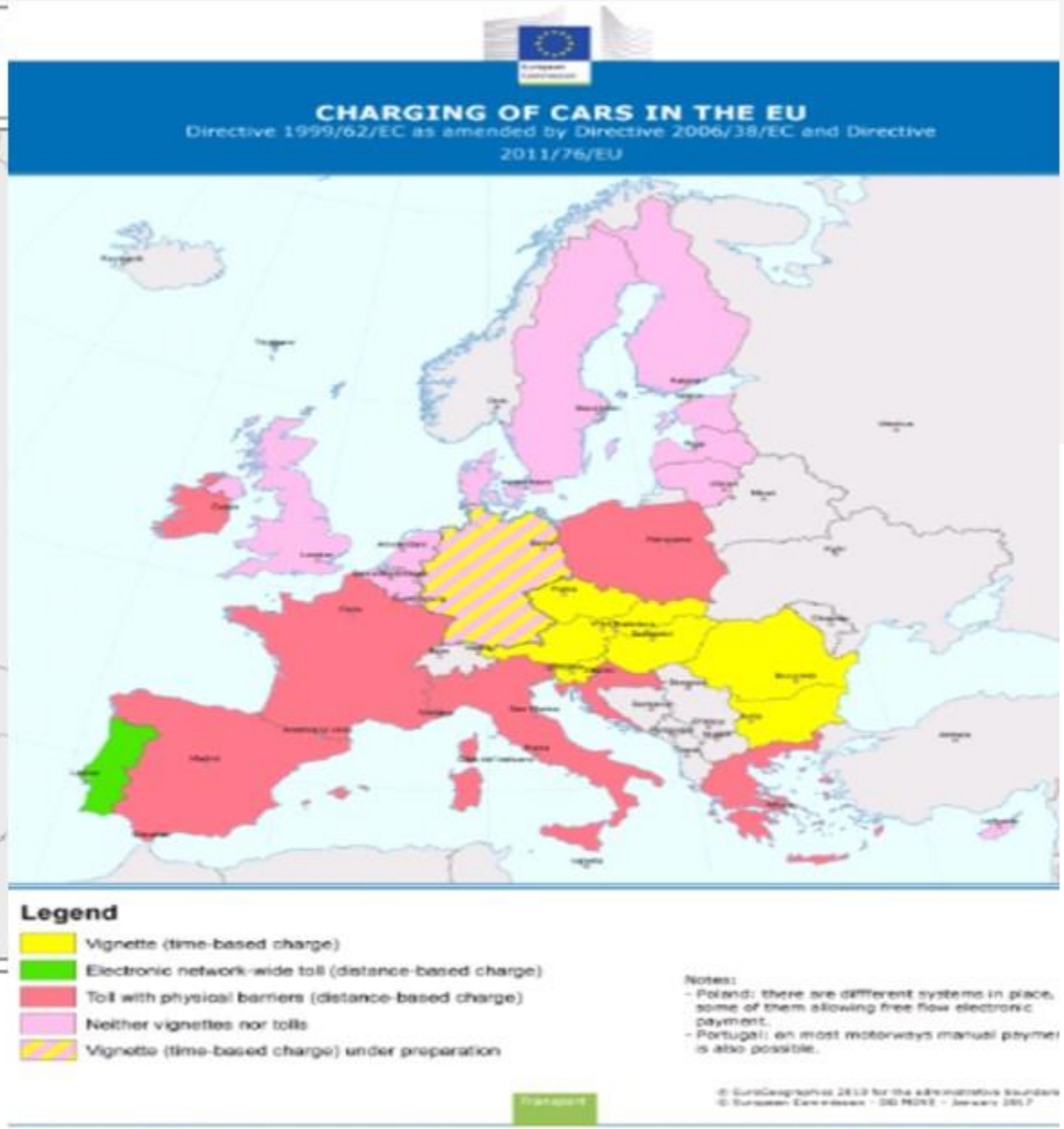
- **The European toll highways' sector already committed to invest in a new mobility framework fulfilling the climate change challenges by fostering the development of green, safe and innovative transports (e.g. deployment of alternative fuels' infrastructure along the road network or developing multi-modal transportation opportunities, etc.);**

- **Concession model as an efficient tool to enhance sustainable mobility through the *user/polluter pays principle*;**

- **Sustainable financing possible through the application of tolling and road users' charging systems with a clear earmarking on transportation mobility solutions.**

Overview of current road charging systems in Europe for HVs and LVs: new tolling projects are on the pipeline





Thank you IBTTA!

Emanuela Stocchi

AISCAT Director of International Affairs, IBTTA Past President

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About ASECAP:

ASECAP is the European Association of Operators of Toll Road Infrastructures across 20 member countries representing 128 companies employing more than 50,000 direct jobs and 200,000 indirect jobs. They operate, maintain, manage a network of more than 86,000 km with a long-term vision that ensures highest quality standards to make the road infrastructure safest thank to the user/ payer principle providing sustainable fi nancing.

82200 km

19
members

128
companies

Full Members I Membres Pleins

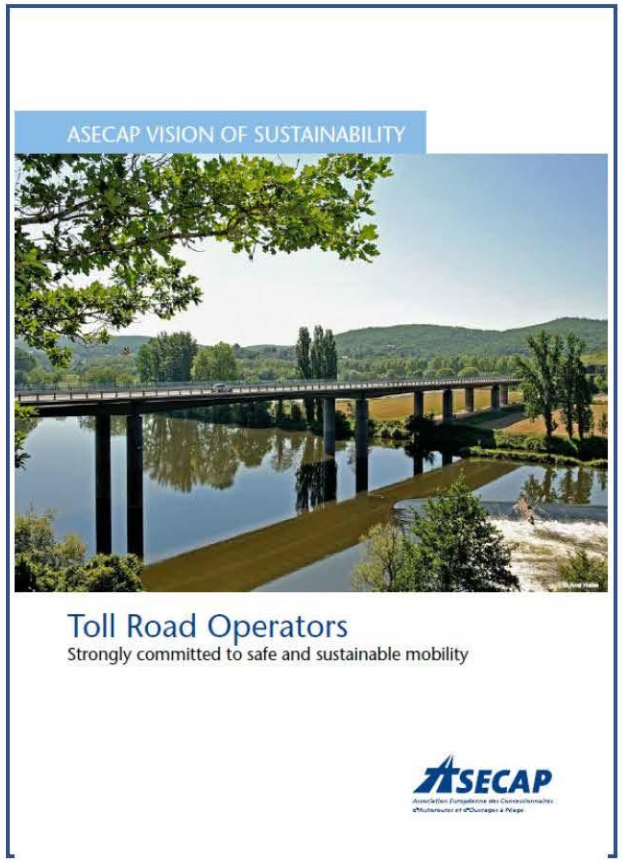
- ASFINAG — Autobahnen- und Schnellstraßen-Finanzierungs-Aktiengesellschaft
- HUKA — Hrvatska Udruga Koncesionara za Autoceste s naplatom cestarine
- SUND & BAELT — Holding A/S
- ASFA — Association professionnelle des Sociétés Françaises concessionnaires ou exploitantes d'Autoroutes et d'ouvrages routiers
- HELLASTRON — Hellenic Association of Toll Road Network
- AKA — Alföld Koncessziós Autópálya Zrt.
- ITIA — Irish Tolling Industry Association
- AISCAT — Associazione Italiana Società Concessionarie Autostrade e Trafori
- PAK — Polskie Autostrady Koncesyjne
- APCAP — Associação Portuguesa das Sociedades Concessionárias de Autoestradas ou Pontes com Portagens
- PUBLIC ENTERPRISE ROADS OF SERBIA
- DARS, d.d. DRUŽBA ZA AVTOCESTE V REPUBLIKI SLOVENIJI, d.d. (Motorway Company in the Republic of Slovenia)
- SEOPAN — Asociación de Empresas Constructoras y Concesionarias de Infraestructuras
- N.V. WESTERSCHELDETUNNEL
- ICA
- Midland Motorways Group

Associate Members I Membres Associés

- TOLL COLLECT GmbH
- ADM — Société Nationale des Autoroutes du Maroc
- NDS NÁRODNÁ DIAĽNIČNÁ SPOLOČNOSŤ, a.s. (National Motorway Company)

ASECAP SUSTAINABILITY FLAGSHIP _ Political aim

- The ASECAP Sustainability initiative is to illustrate that our motorway sector can bring its contribution to economic development.
- A dedicated task force was created gathering experts the ASECAP COPER II, chaired by Emanuela Stocchi and the committee dealing with road safety and sustainability, and COPER IV,the committee responsible for data collection chaired by Alenka Kosic with the assistance of ASECAP Team.
- Group defines a set of KIPIs to show progress and challenges set out by the Paris Agreement, the EU Green Deal, The UN SDGs Goals and the Vision Zero
- The objective of the report is to show that we are not only road infrastructure managers, but we also respond to the needs of sustainable mobility from a broader perspective.
- The project initiative and KPIs data described in the report will show that the toll motorway industry is and will remain a key partner strongly committed to working together for a carbon free, safe mobility, bringing its contribution to build a more inclusive society.



Content of the report

Introductory statement

2. ASECAP highlights

3. The environment

- **Toward carbon-free transport to answer climate change challenges**
- **Responsible management of the environment**

4. Infrastructure safety

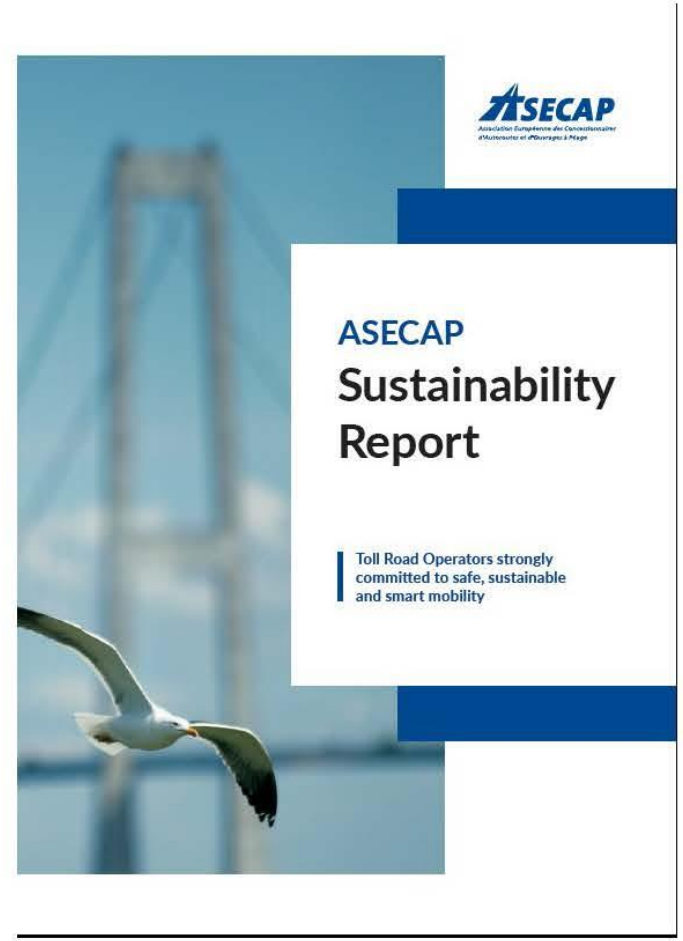
- **Working towards Road Safety Vision Zero objective**

5. People and stakeholders

- **More inclusive and equal transport mobility**
- **Offering high level services to the users through innovation**

6. Sustainable mobility: impact on communities

- **Annexes with company projects**



The environment

ENVIRONMENT - General
Number of electrical charging stations (points) along the network operated by the members
Number of hydrogen charging stations (points) along the network operated by the members
Number of Safe and Secure Parking Areas for trucks*
Number of water protection systems/basins along the network operated by the members
Length of noise barriers along the network operated by the members (in km)
Number of infrastructures dedicated to fauna crossing only (under/upper, over passes culverts)
Number of other infrastructures allowing animal crossings (tunnels, bridges, viaducts etc.)

WASTE
Waste (operations and routine maintenance) recycled or reused (in tons)
Waste (road construction and heavy maintenance waste) recycled or reused (in tons)
Total waste (in tons) from operations and maintenance
Total waste (in tons) from road construction
Waste recovery rate (in %)

The environment

CARBON FOOTPRINT
CO_2 emissions (in tons) - direct and indirect emissions related to own activities (Scope 1 and 2)
Energy produced by suppliers of motorway companies renewable resources (in MWh)
Energy produced by motorway operators renewable resources (in MWh)
Energy consumption (in GWh)

WASTE
Waste (operations and routine maintenance) recycled or reused (in tons)
Waste (road construction and heavy maintenance waste) recycled or reused (in tons)
Total waste (in tons) from operations and maintenance
Total waste (in tons) from road construction
Waste recovery rate (in %)

People and stakeholders

EMPLOYMENT
Permanent staff - women
Permanent staff - men
Permanent staff - total

EQUAL OPPORTUNITIES
Number of women in executive and management positions (board and executive levels, directors and heads of departments & leading positions in companies)
Number of men in executive and managament positions (board and executive levels, directors and heads of departments & leading positions in companies)
% of women in executive and management positions

EX KPIs

ASECAP environmental impact	2019	2020	2021
CO2 emissions (in tons) - direct and indirect emissions related to own activities (Scope 1 and 2)	612.765	550.341	508.624
Energy produced by motorway operators renewable resources (in MWh)	2.562	3.367	3.688
Energy consumption (in GWh)	2.435	1.355	1.035
(*) see methodology section	301886,5142	206974,9119	280541,6988

Responsible management of the environment			
	2019	2020	2021
Number of electrical charging stations (points) along the network operated by the members	549	678	1.365
Number of hydrogen charging stations (points) along the network operated by the members	1	1	1
Number of water protection systems/basins along the network operated by the members	11.718	11.794	11.751
Number of infrastructures dedicated to fauna crossing only (under/upper, over passes culverts)	6.471	6.469	6.484
Number of other infrastructures allowing animal crossings (tunnels, bridges, viaducts etc.)	17.360	18.970	18.713
Waste (operations and routine maintenance) recycled or reused (in tons)	101.778	56.478	73.538
Waste (road construction and heavy maintenance waste) recycled or reused (in tons)	2.004.263	2.622.235	2.431.126
Total waste (in tons) from operations and maintenance	145.549	91.214	126.323
Total waste (in tons) from road construction	4.830.284	5.669.303	4.423.087
Waste recovery rate (in %)	42%	47%	55%
(*) see methodology section			

Infrastructure safety			
	2019	2020	2021
Network in construction (km)	699	788	1.181
Network widening (km)	281	241	221
Total Investment (M€) - KPI 4	8.790	8.810	8.666
Injured Persons	25.515	15.678	17.592
Fatal Accidents	567	417	472
Fatalities	643	465	521
personal injury rate	9,10	7,30	6,93
Fatal accident rate	0,20	0,19	0,18
Fatality rate	0,23	0,21	0,20
Km travelled	284.401	217.632	257.048

People and stakeholders	2019	2020	2021
Permanent staff - total	44.955	44.523	44.357
Permanent staff - women	14.537	14.422	14.047
Permanent staff - men	30.701	30.394	31.879
Number of women in executive and management positions (board and executive levels, directors and heads of departments & leading positions in companies)	1.109	1.144	1.230
Number of men in executive and managament positions (board and executive levels, directors and heads of departments & leading positions in companies)	2.828	2.854	3.015
% of women in executive and management positions	28%	29%	29%
(*) see methodology section			

86,200 km

more than

€26 billion

Toll revenues

45,000

ASECAP members direct employment

2.1*/1B Kms

2.1* fatalities per billion kilometres driven on motorways (fatality rate 0.21)

* EU countries data

more than

€6 billion

ASECAP companies investment

more than

€4 billion

generated for VAT alone

3.969

ASECAP rest and service areas

65.6 million

ETC subscribers

Data: 01.01.2021

1ST ASECAP
SUSTAINABILITY FORUM

9 JUNE 2022 | LISBON

ASECAP apcap Brisa

Asecap hopes the Lisbon meeting will be the first in a series of sustainability forums as 'climate policy becomes the highest priority'

All change: get ready to rethink everything

Thinking global and acting local

How are we going to implement it?

A more efficient, responsible and sustainable exploitation model

Integration in the environment

- **Generate positive synergies with the local community and the empowerment and conservation of natural capital.**
  - ✓ Increase community related projects
  - ✓ Foster biodiversity in areas around the motorway
  - ✓ Maintain level of local purchasing

Security and quality

- **Guarantee road safety and occupational health and safety,**
- **Enhance job quality,**
- **Ensure equal opportunities and develop quality products and services that generate positive environmental, social and good governance impacts.**
  - ✓ Road fatality reduction in 2024 in line with UN's Global Compact
  - ✓ Increase number of women with executive position
  - ✓ 100% of revenue subject to a formalized cybersecurity policy

Eco-efficiency

- **Reduction of the carbon footprint,**
- **Development of products and services with positive environmental and social criteria**
  - ✓ > 50% scope 1 and 2 emissions reduction
  - ✓ 75% energy used from renewable sources
  - ✓ > 22% reduction of emissions in purchase of products and services in relation to kms travelled
  - ✓ 100% of revenue with environmental management system implemented and certified (ISO 14001 or equivalent)
  - ✓ Increase in number of charging stations for electric vehicles on motorways

Good Governance

- **Organizational culture based on ethical principles.**
  - ✓ 100% of executives, middle management, and employees trained in sustainability by 2030
  - ✓ 100% of stakeholders engaged with code of ethics

ESG Vision 25 Program overview

Vision 21-25
Sustainability (April 23)

- New Strategic Plan 2021-2025, named Vision25, sets 7 ESG Strategic Goals
- New push towards sustainability, based on further integration of financial and non-financial performance
- Combination of materiality and ambition

Environment

1. **Reduce greenhouse gas (GHG) emissions by 60% until 2030**, reaching Net Zero emissions by 2045
2. **Recovery and regeneration of biodiversity and ecosystems**
3. **Implement circularity in 100% of procurement and supply processes by 2030**

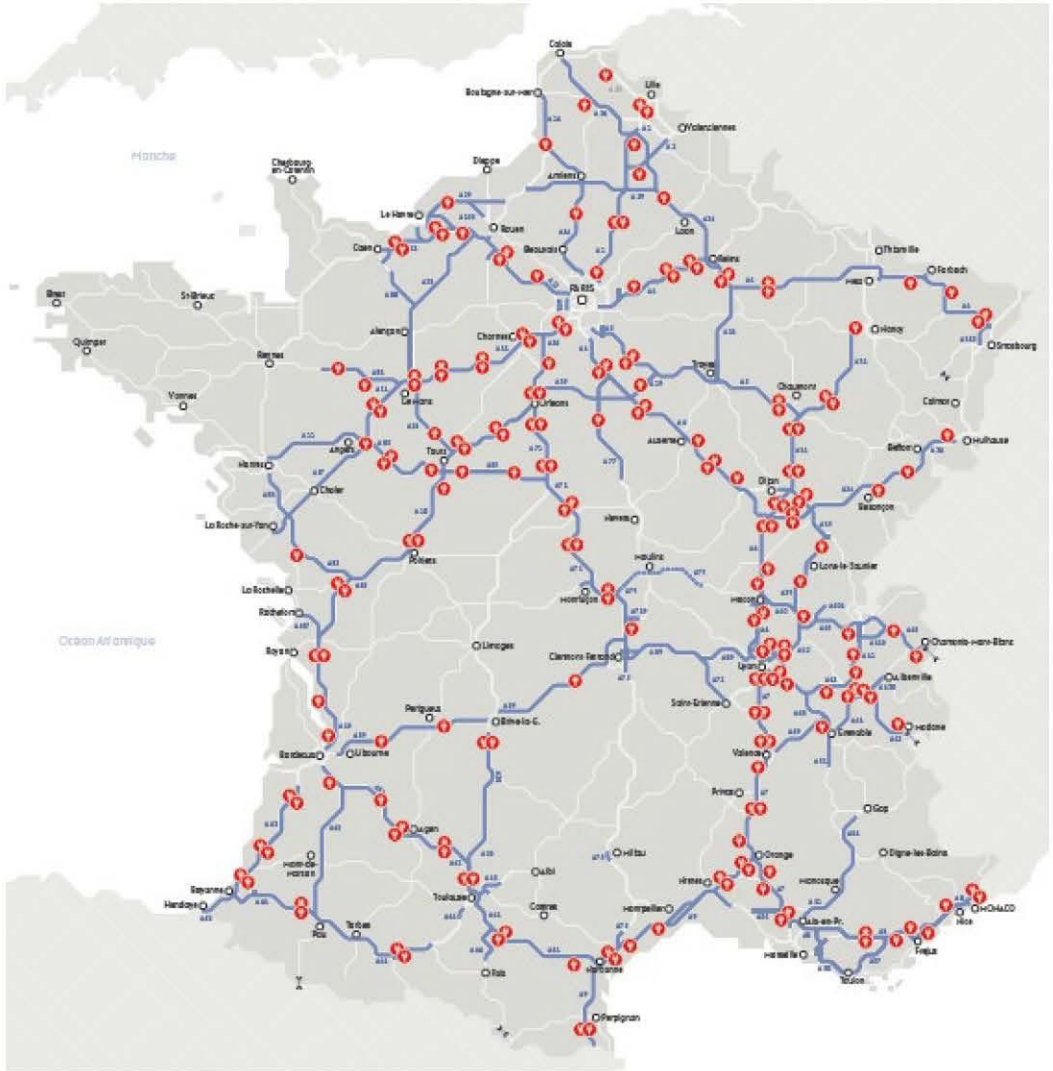
Social

4. **Reduce 50% the number of deaths and serious injuries from road traffic accidents by 2030 (vs 2020)**, aimed at reaching the target of Zero Deaths
5. **Work-life Balance** (efr+)
7. **To have 30% of all leadership functions held by women and double the number of women in first line management positions by 2025**

Governance

6. **Compliance with all processes and value chain of the United Nations human rights commitments**

Fast charging stations for electric light vehicles in France



- 199 service areas on the network equipped with fast charging stations for light vehicles in December 2021 (54%)
- EV sales growing in France : 12 % market share in May 2022
- Comprehensive plan to cover all service areas in 2023

ESG transformation plan to deliver the strategy

Three focus areas

Industrial Levers
Bold Moves

Definition of **flagship initiatives** to transform ASPI's core business model:

- **Sustainable Infrastructure**
- **Net Zero**
- **Sustainable Supply Chain**

Enabling Levers

Set up of the required **enablers** to ensure ESG Transformation Plan's **deployment**:

- **ESG Governance**
- **Stakeholder engagement**
- **Sustainable Finance**
- **Disclosure, Rating & Certification**
- **ESG & Climate Risk Assessment**

Execution Levers

Monitoring of **program implementation**:

- **Control room**
- **ESG KPIs & targets**
- **Implementation roadmap**

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- **Sustainability Leaflet** highlighting the strong commitment of the road infrastructure operators for a sustainable mobility is available on the **ASECAP website.**

- A full detailed report will be published and presented at the ASECAP days taking place in Brussels on November 24/25th 2022

- Next results and projects will be presented in the Second ASECAP Sustainability forum on June 30th 2023 in Vienna

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Climate Change, Energy Programs, and the Green Mobility Agenda

IBTTA International Committee and Sustainability & Resilience Task Force Joint Meeting

Monday October 3rd, 2022

The French highway network

- *Total State network:*
  - **Total : 21 540 Km**
    - *Including highways: 11 774 Km*
      - *Under concession scheme: 9 193 km*
- *On the concessionary network :*
  - *75,8 billion km travelled per year*
  - *1 651 millions tolling transactions*
    - *4,5 per day*
  - *219 service areas equipped with fast electrical charging stations (06%)*
  - *125 parking areas for car pooling*
  - *1804 wildlife crossing structures*

ASFA is the professional association federating highway operators

26 members

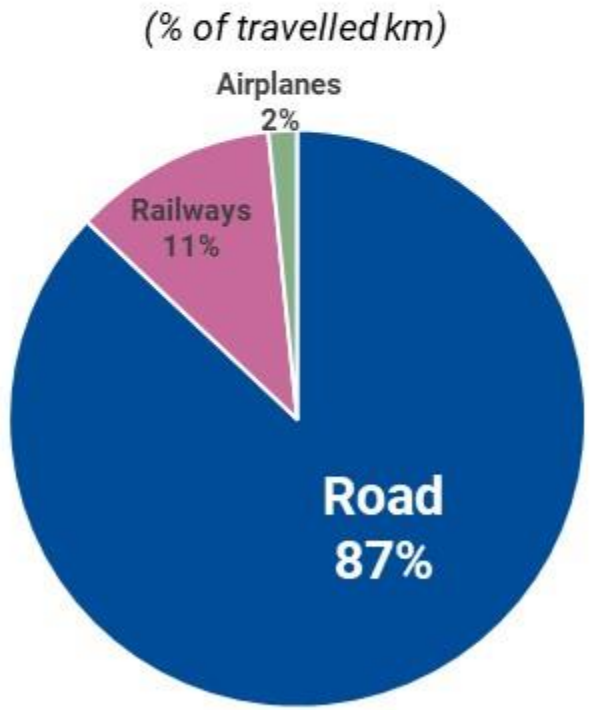
- *21 concessionaires, including 3 State owned*
- *12 239 employees*
- *5 highway exploitation companies*
- *All eligible operators (concessionaires or exploitation) may join the association*

Main missions

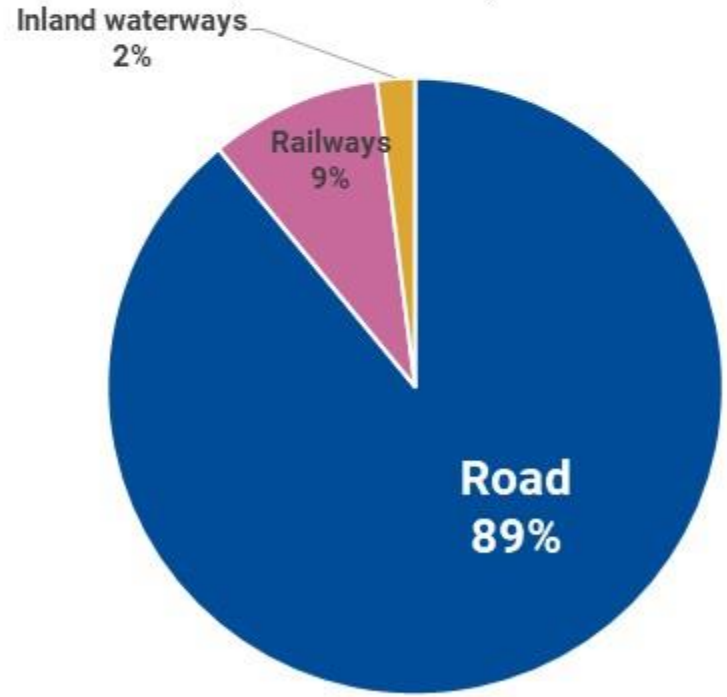
- *Lobbying*
- *Social Branch management*
- *Back office of toll interoperability*

Road is the dominant transportation mode in France

(% of travelled km)

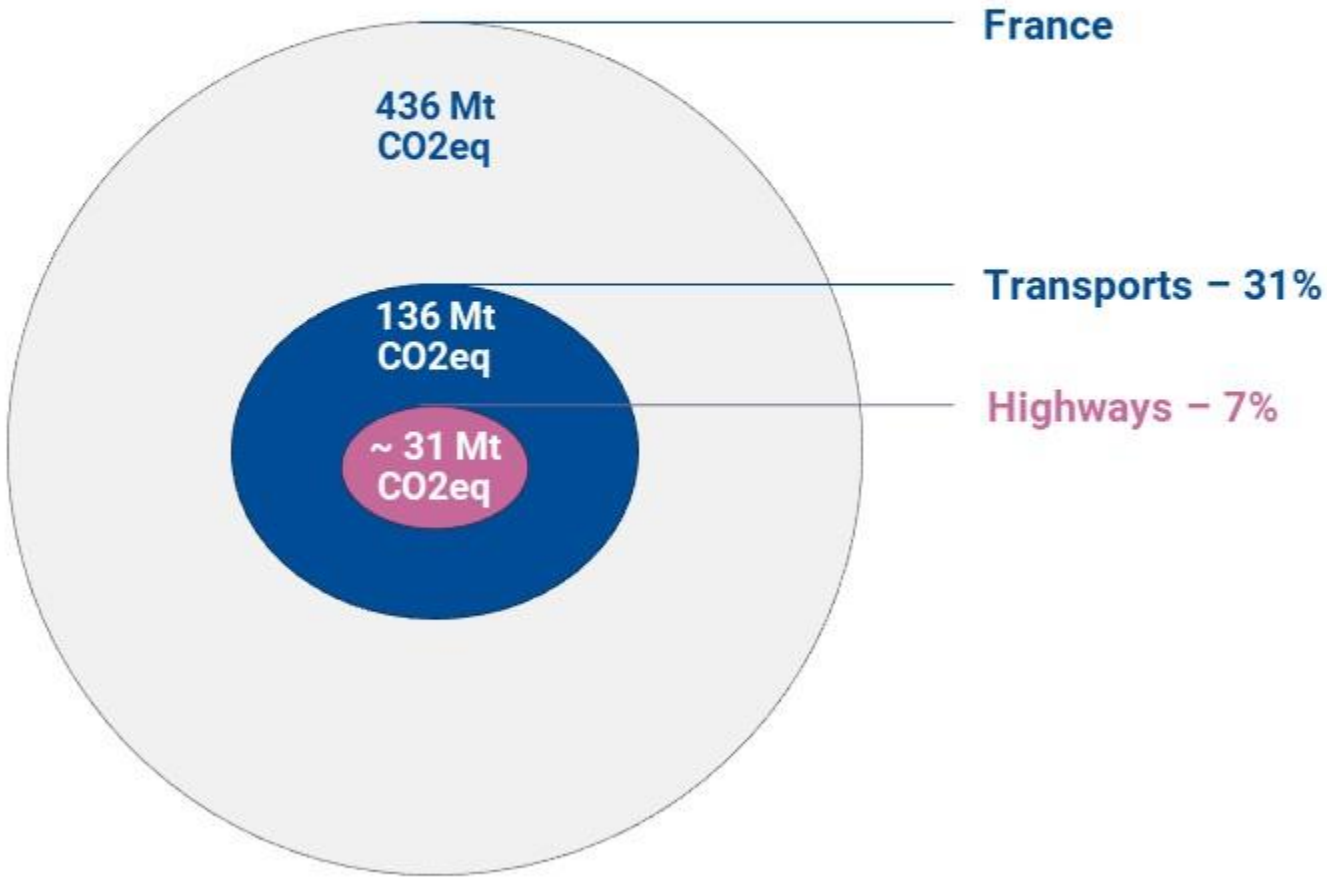


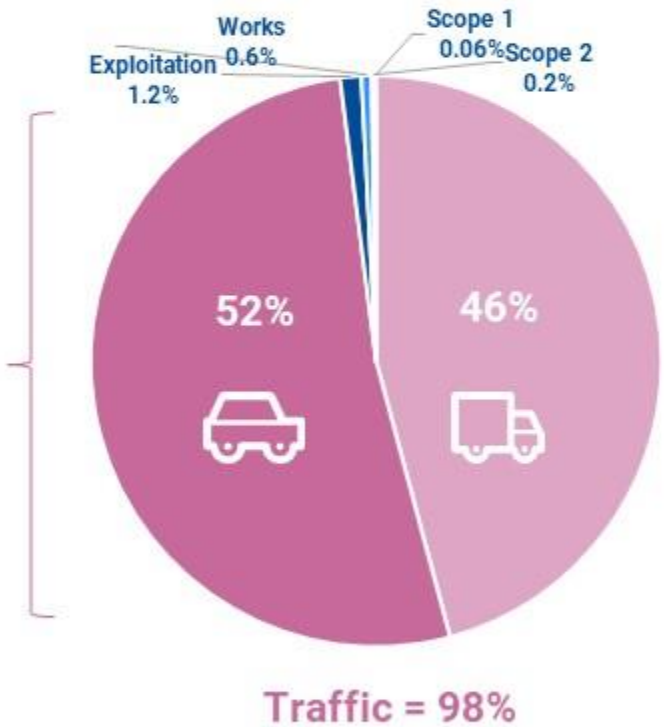
(% travelled t.km)



Source : Faits & Chiffres 2020 de l'URF

CO_2 emissions related to ASFA highways accounts for 7% of total France CO_2 emissions





Source : Ministère de la transition écologique et du climat, HCPC, chiffres 2019 ; Carbon 4 – CITEPA 2017, Mission Prophil – Quantis, ASFA

Actions required to reduce scope 3

Heavy vehicles

- **Objective for 2030**: *16% of alternative fuels*
- *Investment in storage and distribution on service areas: NGV, H_2*
- *Experimentation of ERS ?*

- 4 $MtCO_2eq$ /BAU*

Light vehicles

- **Objective for 2030: 19% electric vehicles**
  - *Development of electric charging stations*
- **Increasing the number of users per vehicle**:
  - *Creating incentives to carpooling/use of public transport around larger cities*
  - *Parking lots for carpooling, multimodal hubs connected to the motorway*
  - *Dedicated lanes (public transport, carpooling/high occupancy) with an impact on travel time*

- 8 $MtCO_2eq$ /BAU*

Free-flow tolling

For both heavy and light vehicles, to help improve traffic conditions and reduce carbon emissions

- *Toll booths and toll plazas to be demolished on the motorway network*
- *Land available for renaturation*

- 0,2 $MtCO_2eq$/ BAU*

- 12 $MtCO_2eq$

** Compared to a 'Business As Usual' scenario with 37 $MtCO_2eq$ emissions in 2030*

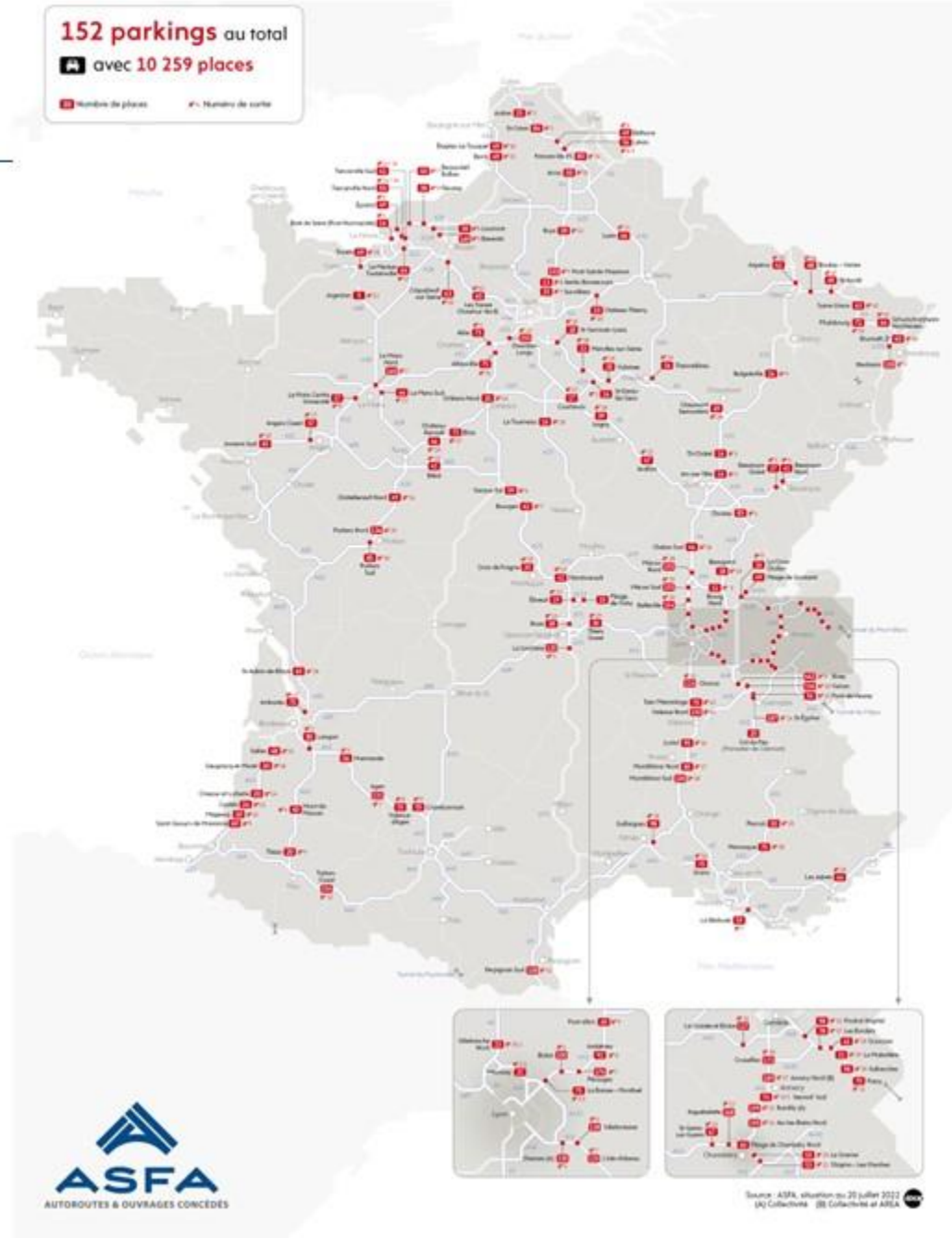
ASFA

Fast charging stations for EV

- *219 service areas on the network equipped with fast charging stations for light vehicles in December 2021 (60%)*
  - *800 charging points*
  - *70% over 150 kW*
  - *1 charging station every 80 km*
- *EV sales growing in France : 12 % market share in May 2022*
- *Comprehensive plan to cover all service areas in 2023*

Parking lots designed for carpooling

- *Over 10 000 parking spots + new areas planned*
- *Increasing occupancy rates requires a dense network of parking areas specially designed for carpooling users and HOV lanes in peri-urban areas*
- *Projects can be achieved within 2 or 3 years*
- *Partnership required with local authorities*



Free-flow tolling

- All newly awarded concession contracts under free-flow scheme: A79, A69
- Existing network: A13 and A14 switch towards free-flow in process

Reducing scope 1&2

→ *Example of actions planned by ASFA members:*

- *Renewable energies production (where possible)*
- *Foster carbon removals by creating natural "CO_2 sinks" on green areas around the infrastructure*
- *Green internal fleet (EV for light vehicles, GNV/H_2 for trucks and heavier vehicles?)*
- *When maintaining the infrastructure : recycling coated aggregates and laying them at lower temperatures (decreases CO_2 emissions)*

ASFA
AUTOROUTES & OUVRAGES CONCÉDÉS

Thank you

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Ma Belle Autoroute

@ASFAutoroutes

ASFA Autoroutes

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ROADIS confidential – Not to be shared without permission.

ROADIS

ROADIS' Sustainability Management
October 2022

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ROADIS

What is ROADIS?

ROADIS is a global reference in the investment, development, operation and management of essential infrastructure assets. We are the PSP Investments platform for the **development, operation and maintenance of highway assets at an international level**.

ROADIS is a highly diversified company with presence in **six countries** across three continents. Some of the key countries for the company are **India**, **Portugal**, **Brazil** and **Mexico**, where ROADIS manages infrastructure concessions. In **Spain**, where the company's headquarters are located, the multinational manages and operates a section of one of the most important highways in the country. And in the **USA**, we have a local presence with a business development team to pursue various toll road project opportunities.

Our Purpose

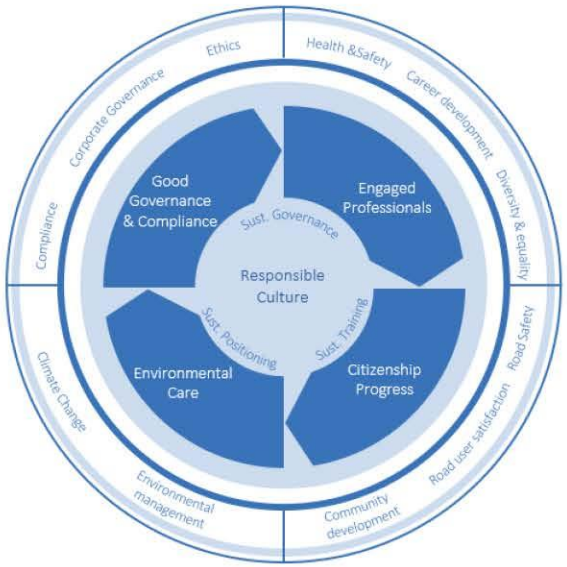
Our purpose is to create value in the communities where ROADIS is present through the profitable investment and management of outstanding infrastructure projects all over the world.

Strategic Sustainability Vectors and Action Lines

To achieve the goals and targets set in the sustainability development agenda, we have defined the **five sustainability vectors** of ROADIS' Sustainability Master Plan 2020-23.

1. **Responsible Culture**
2. **Good Governance & Compliance**
3. **Engaged Professionals**
4. **Citizenship Progress**
5. **Environmental Care**

For each vector, there are different lines of action with their correspondent targets.



Responsible culture encompasses all the other vectors, because its lines are transversal

Five **Strategic Sustainability Vectors**

1. Responsible Culture	2. Good Governance & Compliance	3. Engaged Professionals	4. Citizenship Progress	5. Environmental Care

each of one has **Strategic Action Lines:**

1.1. Sustainability Governance
1.1.1 Establishment of Sustainability Governance
1.1.2 Sustainability Policy

1.2. Sustainability Training
1.2.1 Integrating Sustainability in ROADIS' culture

1.3. Sustainability Positioning
1.3.1 ESG Reporting
1.3.2 ESG Ratings
1.3.3 Communication and positioning

2.1. Compliance
2.1.1 Reinforcement of our commitment
2.1.2 Cybersecurity and information security

2.2. Corporate Governance
2.2.1 Identification and management of the non-financial risks

2.3. Ethics
2.3.1 Human Rights strategy
2.3.2 Supplier code of conduct

3.1. Health & Safety
3.1.1 Occupational health and safety
3.1.2 Health promotion among our employees

3.2. Career development
3.2.1 Career development management
3.2.2 Care for our people

3.3. Diversity & equality
3.3.1 Empowerment of talent

4.1. Road safety
4.1.1 Road safety strategy

4.2. Road user satisfaction
4.2.1 Road user experience

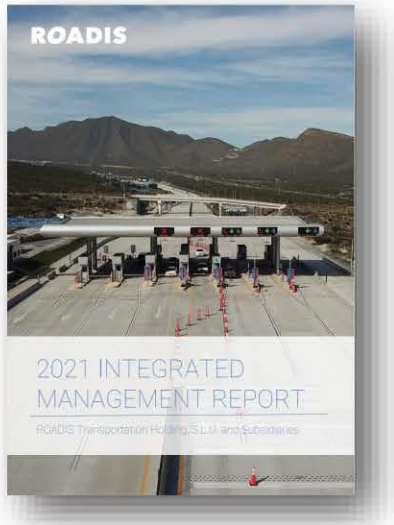
4.3. Community development
4.3.1 Community contribution strategy

5.1. Environmental management
5.1.1 Environmental management policy and system
5.1.2 Sustainable and resilient infrastructure
5.1.3 Biodiversity

5.2. Climate Change
5.2.1 Corporate Climate Change Strategy

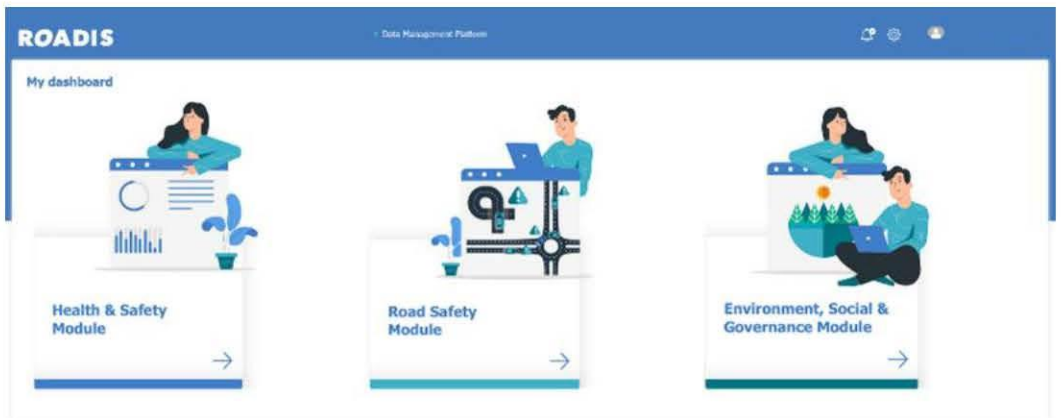
Since 2019, ROADIS annually publishes its **Integrated Management Report** containing information on its Sustainability performance throughout the year following most exigent European standards.

- **Transparency and Good Governance**
- **Commitment to Talent**
- **Commitment to Our Planet**
- **About Those Who Matter Most**



ROADIS Data Management Platform

We have developed and implemented an internal information collection and management tool. It aims to improve current data collection systems, facilitate data analysis, streamline reporting, enable better monitoring of initiatives and strengthen internal audit processes.



Objective

- Reduce ROADIS' base year (2021) carbon footprint in line with the Science Based Target initiative (SBTi) and GHG Protocol

Scope of the plan

- Scope: emissions reduction of Scope 1 + 2 and management of Scope 3

Base Case

- Net Zero by 2040

Reduction Targets

- As per SBTi criteria, ROADIS GHG emissions reduction targets are as follow:

% SBTi Reduction Net Zero	Total	Annual Decrease
2021-2030 (near-term)	-42.0%	-5.9%
2030-2040 (long-term)	-82.8%	-16.1%
2021-2040	-90.0%	-

Reduction Initiatives

SCOPE 1

- Change combustion vehicles to hybrid or electric
- Switch equipment to cleaner fuels (biodiesel)

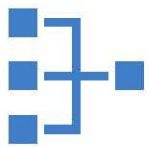
SCOPE 2

- Transition to 100% Renewable Energy
- Substitute street lighting to LED
- Implement Solar Energy (Photovoltaic)

ROADIS has developed multiple sustainability related initiatives in the pursue of becoming an active part of the transition to a more responsible and sustainable business model.

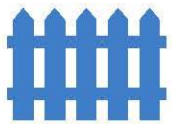
Health & Safety

ROADIS' efforts are focused on averting potential hazardous situations to avoid accidents from occurring.



ISO 45001
H&S management systems

Near miss identification
Reporting of hazardous or near miss situations



Geofencing
to prevent worksite invasion related accidents

Virtual Reality technologies in H&S trainings
For employees and subcontractors

WAZE
Automatic notification of maintenance and operation works being carried out on the road

ROADIS has developed multiple sustainability related initiatives in the pursue of becoming an active part of the transition to a more responsible and sustainable business model.

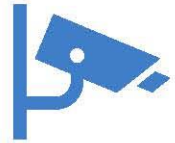
Road Safety

The following initiatives which are being developed include:

Web-based Data Platform
Georeferenced data, heatmaps and crossed-referenced data analysis

Drone footage supported Road Safety Audits
Internal and external

Road Safety communication campaigns



AI traffic video analytics
Blackspot traffic analysis tool

Solar LED Road Studs
Installed in blackspots

Anti-fog signaling systems

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   - Christophe Boutin, ASFA, France
   - José Ramón Ballesteros, ROADIS, Spain / Portugal / worldwide
   - René Moser, ASFINAG, Austria
5. US insights (20 min)
   - Mark Muriello, IBTTA, U.S. Federal activities
   - Doug Feremenga, TCA, Programs in California
6. Discussion
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IBTTA
TOLLING. MOVING SMARTER.

Joint Meeting of the International Committee and Sustainability & Resilience Task Force

René Moser

Senior EU and International Affairs Manager ASFINAG

IBTTA International VP 2022

October 3, 2022

ASFINAG

HAVE A SAFE TRIP, AUSTRIA!

18.1 bn.
miles of total traffic 2021

1,400
miles of highway network

~3,000
Employees

ASFINAG

ASFINAG VISION 2030

„AS A RELIABLE, INNOVATIVE AND SUSTAINABLE MOBILITY PARTNER, WE CONNECT REGIONS AND PEOPLE IN THE HEART OF EUROPE.“

ASFINAG CORE STRATEGIES

Road safety

Service and control

Availability

Sustainability, greening & climate protection

Multimodality, parking & breaks

ITS

International & partnerships

Innovation

Construction and Maintenance

SUSTAINABILITY, GREENING & CLIMATE PROTECTION

1. De-carbonisation and emission reduction of the motorway network

2. Greening of ASFINAG

3. Energy management

4. Recycling and sustainable operation

5. Biodiversity

6. Accessibility for everyone

7. Sustainability report

Austria's 2030 Mobility Master Plan

The new climate action framework for the transport sector:
sustainable – resilient – digital

avoid – shift – improve

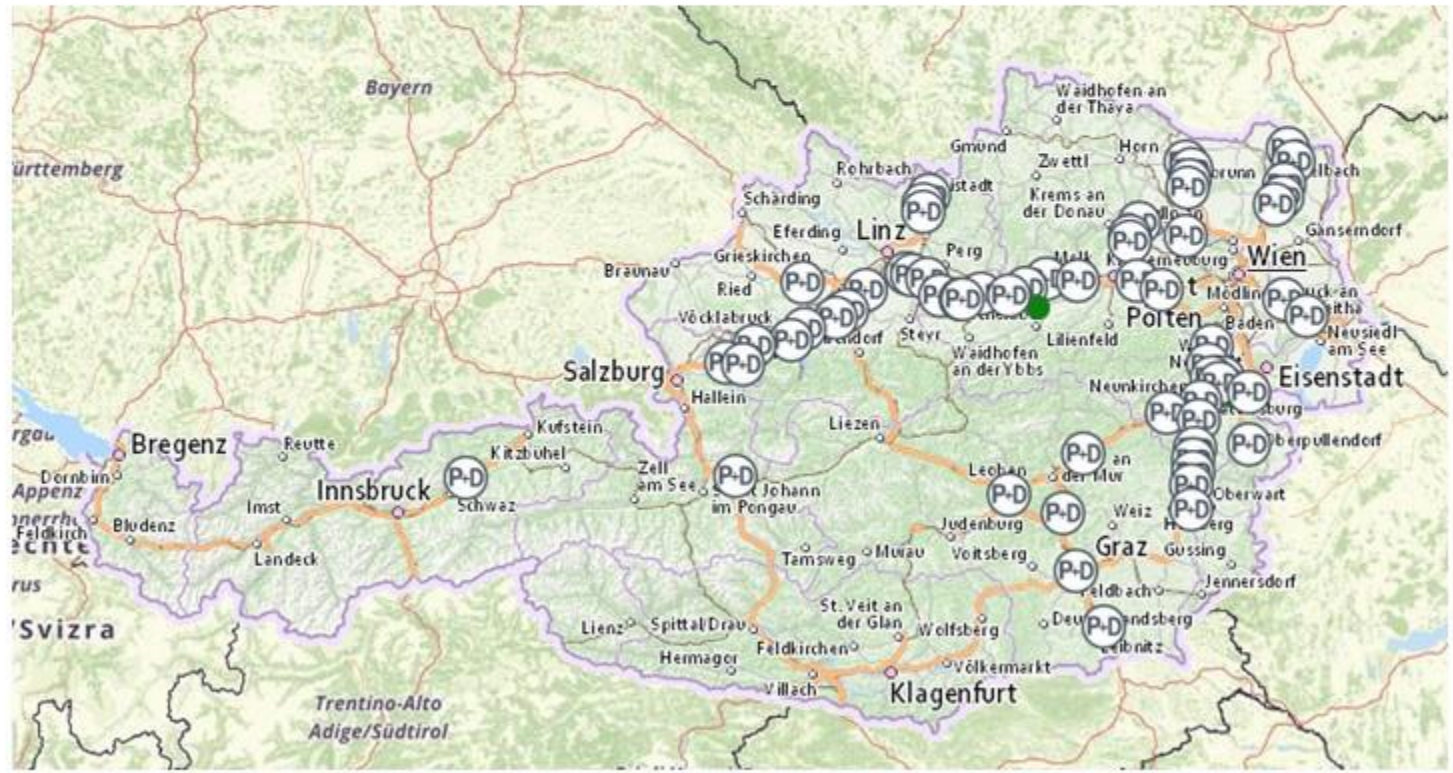
Fostering e-mobility

- ASFINAG will build 1,000+ fast charging points until 2030 (with ≥150kW) serving light and heavy vehicles
- ASFINAG's own passenger car fleet will be fully electric by 2025
- A renewable energy production capacity of 100MWp shall be installed by 2030 (2021: 6MWp)

ASFINAG

Enhancement of multimodality

- Following its vision 2030, ASFINAG is relying on the combination of individual and public transport
- Therefore, ASFINAG will increase its Park & Ride and Park & Drive capacity and offer carpooling apps and respective information services



ASFINAG

Digitalisation for sustainability

- ITS will improve the flow of traffic, reduce the likelihood of traffic jams and thereby reduce CO2 emissions
- ASFINAG will install more than 500 C-ITS units to enable direct communication with the vehicles in the road

ASFINAG SUSTAINABILITY REPORT 2021

ISS ESG analyses and evaluates all sustainability management, including reporting. No evaluation was carried out in 2021. In 2020, ASFINAG was rated C+ in the ISS ESG Corporate Rating, making it the only motorway operator worldwide to achieve prime status for the fourth time in a row. The next evaluation is expected in spring 2022.

ASFINAG SUSTAINABILITY REPORT 2021 | 4

https://www.asfinag.at/media/hpujhoce/asfinag_nachhaltigkeitsbericht_2021_engl.pdf

ANY QUESTIONS?
WE ARE THERE FOR YOU!

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ASFINAG

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U.S. Federal Programs Updates

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Supreme Court vs. USDOT on Climate Agenda

Supreme Court Decision
June 30, 2022

- Ruling that EPA does not have broad authority to curb pollution from power plants.
  - ➢ SCOTUS reversing its ruling from 15 years ago that EPA has regulatory authority over CO_2 and other types of pollution.

FHWA Proposed Rule
July 7, 2022

https://www.govinfo.gov/content/pkg/FR-2022-07-15/pdf/2022-14679.pdf

- FHWA proposed rule would require states/MPOs to track on-road CO_2 emissions on the NHS and set reduction goals for net zero emissions by 2050.
- States/MPOs may have flexibility in target setting that work with their respective climate policies.
- Progress reports would be required.
- First decade compliance estimated to cost $12.9 B.
- Much is not under the control of state DOTs (e.g., land use), fueling questions of USDOT authority.
- Comments due on or before October 13, 2022.

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PROTECT Formula Program Announcement July 29, 2022

- New program in IIJA with $7.3 B apportioned to States by formula.
- Project eligibility includes highway, transit, and certain port/intermodal facilities.
- Eligible costs include planning, resilience improvements, community resilience/evacuation routes, and at-risk coastal infrastructure.
  - not more than 40% for construction of new capacity
- Higher Federal share if the State develops a resilience improvement plan and incorporates it into its long-range transportation plan.
- Liberal transferability among formula fund programs:
  - Transfers ≤ 50% of PROTECT Formula funds allowed to any other State apportionment (National Highway Performance Program, Surface Transportation Block Grant Program, Highway Safety Improvement Program, Congestion Mitigation and Air Quality Improvement Program, National Highway Freight Program, Carbon Reduction Program).
- PROTECT $1.4 B Discretionary Program allowing direct grants to toll operators and others still pending an announcement.

Inflation Reduction Act (IRA) - August 16, 2021

- Passed both houses of Congress by party-line votes.
- Climate change mitigation, clean energy and energy innovation dominate the new law.
- More than $700 B in new revenue over 10 years.
- $369 B in energy and climate measures.
- Expands tax credits for EVs and clean energy initiatives, creates a national climate bank, supports climate-smart agriculture, and addresses aviation and port climate impacts.

Clean Vehicle Tax Credits

- Eliminates 200,000 vehicle cap s per OEM, which had prevented Tesla, Toyota, & GM from fully benefiting from EV tax incentives.
- Tax credits of up to $7,500 for new vehicles and up to $4,000 for used vehicles.
- High-income households and high-priced vehicles are ineligible for tax credits.

New Green Hydrogen Incentives

- Introduces strong new hydrogen fuel incentives for green hydrogen production.
  - May accelerate green hydrogen adoption in trucks and steelmaking.

Inflation Reduction Act - Other Provisions of Interest

Low-carbon Transportation Materials Grants *

- $2.0 B in incentives to use low-embodied carbon construction materials and products in projects.
  - Includes payments to non-federal partners for the added incremental costs of materials, 2% incentive payment of the cost of using low-carbon materials, and FHWA administrative cost reimbursement.

Environmental Review Implementation Funds

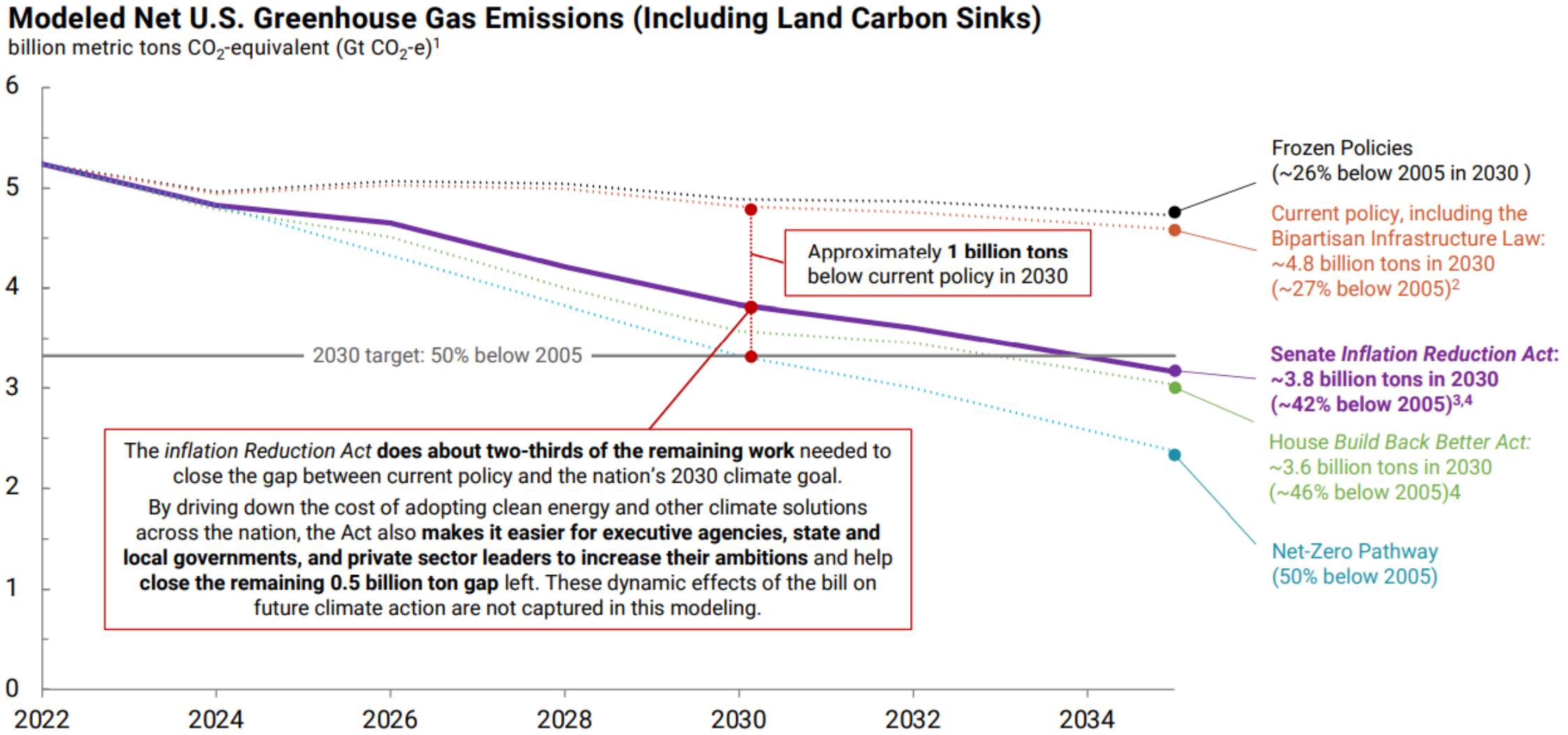
- $100 M for help with for environmental review process documents including technical assistance, templates, guidance, training, etc.

Neighborhood Access and Equity Grants *

- Similar to IIJA “Reconnecting Communities Pilot” aimed to improve walkability, safety, and affordable transportation access, including the removal of facilities that divide communities.
  - $1.9B at 80% federal share & a set aside of $1.1B at 100% federal share for disadvantaged communities.
  - $42 million for FHWA technical assistance.

* ***Excludes projects with additional through travel lanes for single-occupant passenger vehicles.***

Inflation Reduction Act: A Transition to Clean Energy



1 - CO_2-equivalent emissions calculations use IPCC AR4 100 year global warming potential as per EPA Inventory of Greenhouse Gas Emissions and Sinks. **All values should be regarded as approximate given uncertainty in future outcomes.**

2 - Modeled emissions exclude any changes in passenger and freight miles traveled due to surface transportation, rail, and transit investments in IIJA. According to the Georgetown Climate Center, emissions impact of these changes depend heavily on state implementation of funding from IIJA, which could result in anywhere from -14 to +25 Mt change in CO_2 emissions from transportation in 2030.

3 - Results reflect preliminary modeling based on the July 27, 2022 draft legislation.

4 - Results reflect average of estimated high and low oil & gas production scenarios, which span +/- 20 Mt CO_2-e in 2030 (see p. 13-14). Impact on land carbon sinks based on analysis by Energy Innovation.

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IBTTA Special Joint Meeting International Committee and Sustainability and Resilience Task Force

Doug Feremenga, PhD, AICP CEP, LEED AP, STP

Transportation Corridor Agencies

October 3, 2022

Transportation Corridor Agencies

“The Golden State” - California, USA

Super Regions and Climate Stressors

Multimodal Transportation System

Source: U.S. Global Change Research Program

California Climate Commitment

Courtesy: Jim Wilson/The New York Times

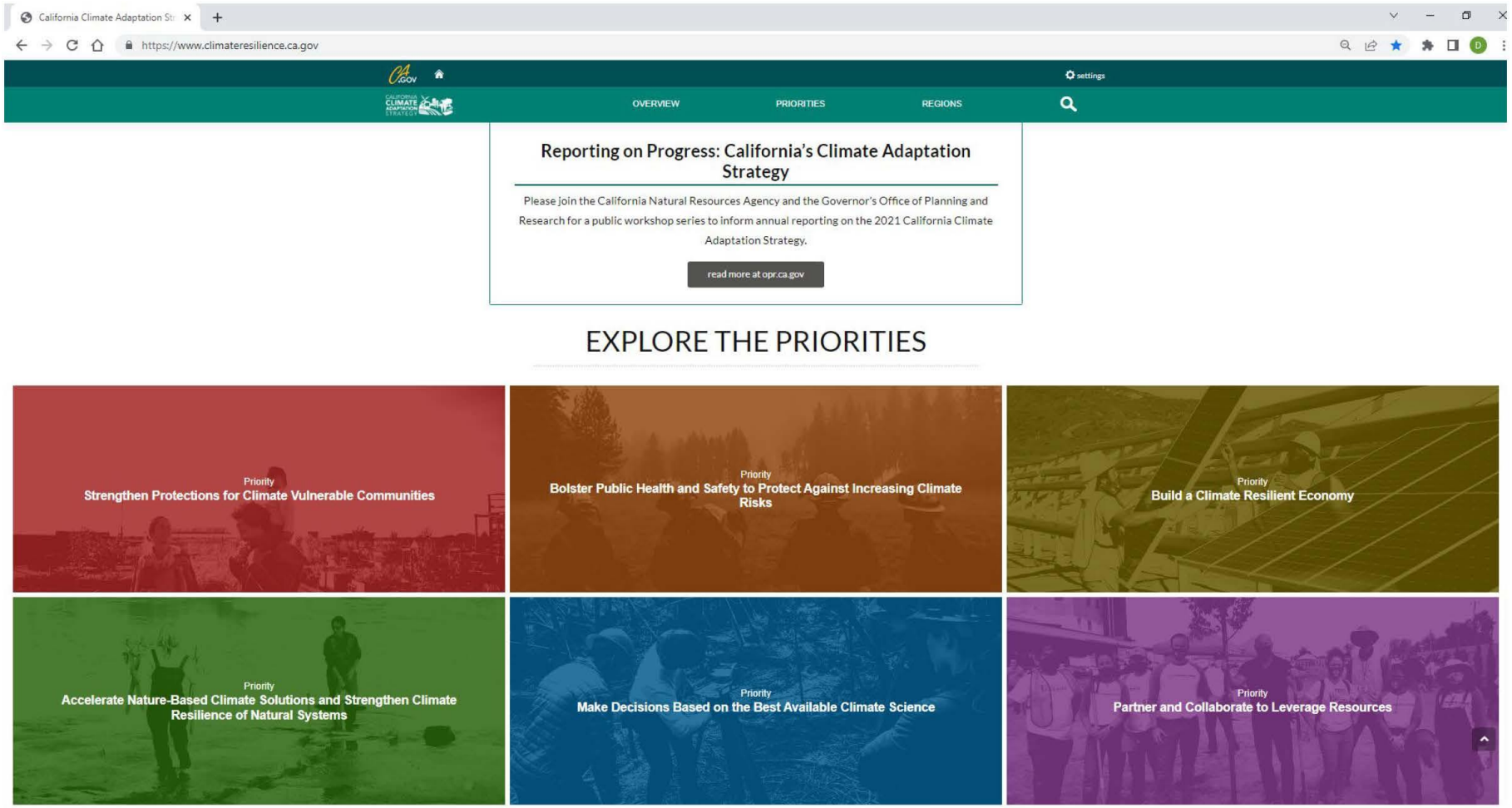

Courtesy: GIPhotoStock/Corbis

Reduce GhG emissions to 80% below 1990 levels by 2050 ("**80x50**")

- Cut Air Pollution by 60% - transition to **zero-emission vehicles**
- **Reduce fossil fuel use** in buildings and transportation by 92%
- Accelerate the State's **transition to clean energy**
  - 100% Clean Electric Grid (90% Clean energy by 2035, 95% by 2040, 100% by 2045)
- **Carbon Neutrality** (No later than 2045)

California Climate Adaptation Strategy

https://www.climateresilience.ca.gov/



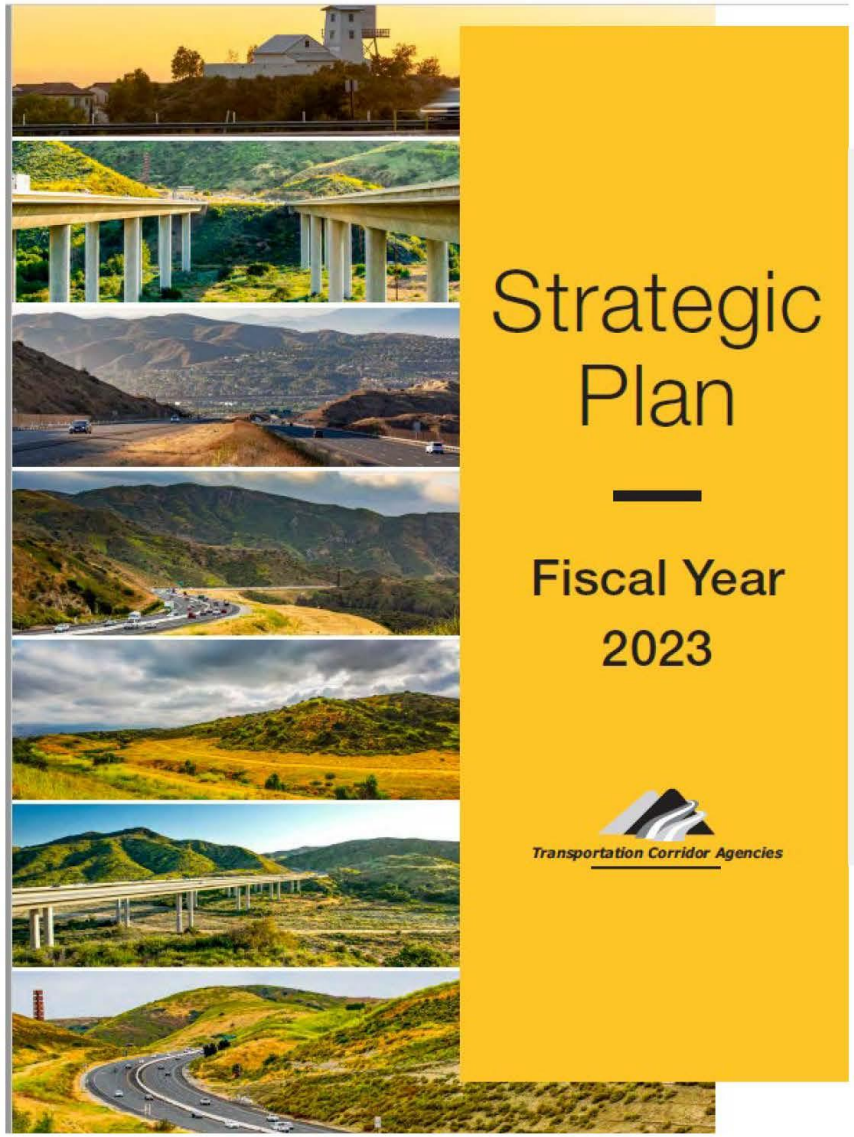
Transportation Corridor Agencies (TCA)

https://thetollroads.com

- 51-centerline miles (82 km) [420 lane miles/~675km]
- 20% of the highway network in Orange County
- Owned and maintained by the California DoT (Caltrans)
- Parallels existing congested freeways – saves time by offering a fee flowing, priced alternative for drivers

	Orange County Highways	The Toll Roads	%
Centerline Miles	238	51	21%

TCA's Strategic Plan



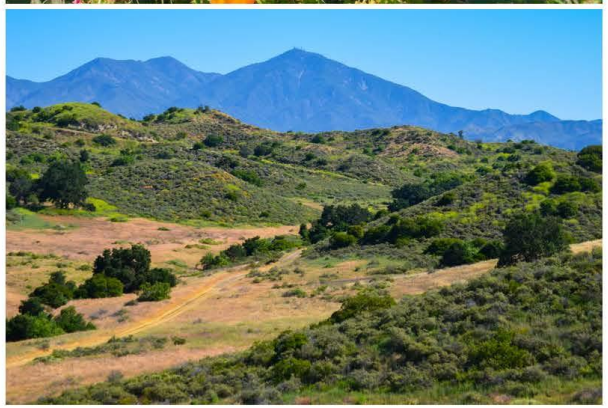
Sustainability – On the Roadway

- Mobility- moving people and goods through greater use of non-congested highways
- Free Flowing Traffic Cuts Emissions (All Electronic Tolling)
- Less GhG emissions, no hotspots
- Congestion Pricing
- Capacity to Enhance Transit Service
- Wildlife Safety Fence and Undercrossings (Reduce Vehicle-Wildlife Collisions)
- Medians designed to accommodate future transportation demands
- An alternative to system disruptions on the parallel non-tolled facilities

Sustainability – Off Roadway

Environmental Programs

- Over 30 years of Environmental Stewardship
- Over 2,100 acres (~850 hac) of restored, revegetated and preserved habitat
- Mitigation Provides Carbon Sequestration



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Time for Open Discussion

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