

SUSTAINABLE NATURAL RUBBER ROADMAP

2020 - 2025

SUSTAINABLE NATURAL RUBBER ROADMAP 2020 - 2025

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ABOUT THIS DOCUMENT

The Sustainable Natural Rubber Roadmap 2020 - 2025 sets key indicators to guide the implementation of Michelin's Sustainable Natural Rubber Policy. The categories correlate with the policy pillars to facilitate insight into Michelin's progress. The roadmap is considered a living document, and indicators can be added if they have been identified as material or removed if they are deemed no longer relevant (with rationale provided).

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WE CARE ABOUT THE ENVIRONMENT

	2020	2021	2022	2023	2024	2025	Def#	
We Care about the Environment		★ Global deforestation risk analysis in collaboration with WWF France					9	
	34 000 ha					Net gain > 34 000 ha		
		Contribution to the conservation of environmentally, biologically and culturally important areas						10
	(Mi + JV)		70%	80%	90%	95%	≥95%	
		% of supply with deforestation risk, with zero deforestation principle adopted and applied						11
			★ Expand on-site quality audits to include environmental aspects					12
			50%	≥98%	≥98%	≥98%	≥98%	
		% of supply assessed on basic standards on environmental aspects						13
		60%	(T1) 65%	70%	75%	80%	≥80%	
		% of supply with 'confirmed' performance on environmental practices as assessed by EcoVadis						14
	(T1 + Mi + JV) 95%	85%	75%	65%	55%	50%		
	Volume of pesticides used in Group and joint venture plantation operations against 2019 baseline						15	
	(Mi + JV)							
		★ Rubberway smallholder jurisdictional level risk mapping summary (Environment)					16	
		# jurisdictions with intervention programs relating to 'environment'						17
		(SH)						
		# initiatives taken to reduce pesticide use by smallholders						18
	(SH)							

WE CARE ABOUT RUBBER FARMERS

		2020	2021	2022	2023	2024	2025	Def#
We Care about Rubber Farmers			★ Rubberway smallholder jurisdictional level risk mapping summary (Agricultural Training)					19
								20
								21
								22
								23
								24
								25
								26

WE CARE ABOUT OUR STAKEHOLDERS (1)

		2020	2021	2022	2023	2024	2025	Def#	
We Care about our Stakeholders			★ Update of Sustainable Natural Rubber Policy					27	
		★ Stakeholders consultation		★ Stakeholders consultation		★ Stakeholders consultation		28	
			★ Publication of complete SNR dashboard					29	
				★ Grievance system available				30	
			40%		50%	60%	70%	≥80%	31
			★ % of supply with a publicly available SNR policy in line with GPSNR framework						
		(T1 + Mi + JV)	50%	55%	60%	70%	75%	≥80%	32
		★ % of supply with 'confirmed' performance on business ethics as assessed by EcoVadis							
		(T1 + Mi + JV)			★ 80% of supply deploying Rubberway solution				33
			30%	40%	58%	60%	70%	≥80%	
			★ % of supply where source has been risk-assessed at a jurisdictional level (Rubberway)						34
		(SH)	★ Active & constructive participation in natural rubber industry and multi-stakeholder platforms						
		(SC)	★ Smallholder representatives approved at GPSNR General Assembly (GA)						36
		★ GPSNR policy framework defined						37	
	(SC)				★ Assurance model and policy implementation approved at GPSNR GA			38	
			★ Consultations to garner industry group alignment on EU Due diligence and imported deforestation					39	

WE CARE ABOUT OUR STAKEHOLDERS (2)

		2020	2021	2022	2023	2024	2025	Def#	
We Care about our Stakeholders			★ NR Sourcing Control (matrix) published					40	
		100%	100%	100%	100%	100%	100%	41	
		% of supply where source is known							
			70%	80%	90%	≥95%	≥95%	42	
		% of supply where source has been risk-assessed globally							
			30%	40%	50%	60%	≥70%	43	
		% of supply where source is risk-assessed at a jurisdictional level and engaged							
				85%	90%	95%	100%	44	
	% supply from medium and industrial plantations traceable to plantation level								
			35%	40%	45%	≥50%*	45		
	% supply from smallholders traceable to jurisdictional level								

*Target of 100% of supply from smallholders traceable to jurisdictional level by 2030

DEFINITIONS

Def#	Action / Indicator	Definition
1	Expand on-site quality audits to include labor & human rights aspects	2022 and before: Quality audits run on-site at individual supplier natural rubber (NR) processing factories (1) before they are included in Michelin's approved supplier list (2) once a year or once every two years based on their performance ranking. These audits already include health and safety aspects. Michelin will further expand these audits to include aspects relating to labor and human rights.
2	% of supply assessed on basic standards on labor & human rights aspects	<p>2022 and before: % of supply = % of NR volume purchased year - 1</p> <p>2023-2025: % target suppliers assessed on basic standards on labor & human rights aspects.</p> <p>% target = Achievement of number of actual audits against number of planned audits according to Michelin "supplier quality system audit procedure" (ESQF) framework.</p> <p>Assessed: On-site quality audit with expanded aspects that include labor & human rights aspects conducted.</p> <p>Basic standards: Evidence that fundamental workers' rights are not infringed upon, including no evidence of child or forced labor. Evidence of appropriate health and safety practices, including the provision of appropriate personal protective equipment.</p> <p>Where gross infringements are identified, factories will need to implement timebound corrective action plans.</p> <p>Remarks: A new methodology for target setting and achievement will be used from reporting year 2023 onwards. Natural rubber processing factories (suppliers) will be assessed once a year or once every two years based on their performance ranking. These assessments support supplier compliance with its Quality standards and Purchasing Principles and aside from quality issues, also address the application of the health, safety, environmental and human rights standards.</p>
3	% of supply with 'confirmed' performance on labor & human rights practices as assessed by EcoVadis	<p>% of supply = % of NR spend* year - 1</p> <p>*% of NR spend closely approximates % of supply volume, used for EcoVadis-related indicators as EcoVadis assessments are used across all purchasing domains and % spend is used to measure coverage.</p> <p>'confirmed' performance: Total aggregate score of supplier meeting confirmed grade as per the EcoVadis assessment methodology ($\geq 45/100$); labor & human rights pillar meeting minimum of 50/100.</p>

DEFINITIONS

Def#	Action / Indicator	Definition
4	% of supply at risk of land-rights issues, with FPIC principle adopted and applied	<p>Currently, supply determined to be at risk is defined to be supply originating from large natural rubber plantations where an individual management unit has an area >500ha (industrial plantations). Michelin is working to develop a risk assessment framework that will determine which plantations are at risk.</p> <p>% of supply at risk of land-rights issues with FPIC principle adopted and applied = volume from supply at risk¹ purchased from suppliers with FPIC principle adopted and applied / volume from supply at risk¹ purchased from all suppliers. Volume based on (year - 1).</p> <p>¹Where supplier sources from a mix of industrial plantations and smallholders, volume at risk is calculated as: total volume purchased from supplier * [industrial plantation-based production of supplier / total production of supplier]</p> <p>Adopted: FPIC clause is adopted in company policy</p> <p>Applied: Evidence of FPIC mechanism having been applied where there has been new development since Michelin's policies have been published. Where there are ongoing issues related to FPIC processes, there should be an active engagement process.</p> <p>Note on medium plantations (<500 and >50ha): Medium plantations are typically owned by individual landowners and exist in limited number primarily in West Africa and South America; they are sometimes difficult to differentiate from smallholder farms. Michelin working with its suppliers to refine the delineation between small and medium farms, as well as to consider specific approaches for non-industrial medium farms.</p>
5	Publish guidelines & best practices to reduce odor from NR processing	-
6	RubberWay smallholder jurisdictional level risk mapping summary (Respecting People)	Jurisdictional-level risk mapping summary from RubberWay to be displayed on the web dashboard.
7	# jurisdictions with intervention programs relating to 'respecting people'	Cumulative number of jurisdictions where programs that address risks, identified through RubberWay, are taking place. Programs include those conducted directly by Michelin, joint ventures and its supply chain by suppliers.
8	# initiatives taken to encourage development of local communities	Cumulative number of direct initiatives. Examples of initiatives may include activities to improve health and education infrastructures, alternative forms of employment, capability building for better livelihoods, etc.
9	Global deforestation risk analysis in collaboration with WWF France	-

DEFINITIONS

Def#	Action / Indicator	Definition
10	Contribution to the conservation of environmentally, biologically and culturally important areas (ha)	Environmentally, biologically and culturally important areas: areas may include HCV and HCS area, protected area, primary forest, riparian buffer zones, important areas used for cultural and social purposes and other areas deemed to be of environmental, biological and cultural importance. Contribution includes areas conserved through Group-owned and joint venture plantations.
11	% of supply with deforestation risk with zero deforestation principle adopted and applied	<p>Currently, supply determined to be at risk is defined to be supply originating from large natural rubber plantations where an individual management unit has an area >500ha (industrial plantations). Michelin is working to develop a risk assessment framework that will determine which plantations are at risk.</p> <p>% of supply at risk of land-rights issues with zero deforestation principle adopted and applied = volume from supply at risk¹ purchased from suppliers with zero deforestation principle adopted and applied / volume from supply at risk¹ purchased from all suppliers. Volume based on (year - 1).</p> <p>¹Where supplier sources from a mix of industrial plantations and smallholders, volume at risk is calculated as: total volume purchased from supplier * [industrial plantation-based production of supplier / total production of supplier]</p> <p>Adopted: zero deforestation clause is adopted in company policy</p> <p>Applied: Implementation of zero deforestation commitment (including HCV and HCS assessments) where there has been new development since Michelin's policies have been published. Where there are ongoing issues related to deforestation, there should be an active engagement process.</p> <p>Note on medium plantations (<500 and >50ha): Medium plantations are typically owned by individual landowners and exist in limited number primarily in West Africa and South America; they are sometimes difficult to differentiate from smallholder farms. Michelin working with its suppliers to refine the delineation between small and medium farms, as well as to consider specific approaches for non-industrial medium farms.</p>
12	Expand on-site quality audits to include environmental aspects	2022 and before: Quality audits run on-site at individual supplier NR processing factories (1) before they are included in Michelin's approved supplier list (2) once a year or once every two years based on their performance ranking These audits already include aspects relating to effluent treatment. Michelin will include additional aspects relating to the environment.

DEFINITIONS

Def#	Action / Indicator	Definition
13	% of supply assessed on basic standards on environmental aspects	<p>% of supply = % of NR volume purchased year - 1</p> <p>2023-2025: % target suppliers assessed on basic standards on environmental aspects.</p> <p>% target = Achievement of number of actual audits against number of planned audits according to Michelin "supplier quality system audit procedure" (ESQF) framework.</p> <p>Assessed: On-site quality audit with expanded aspects that include environmental aspects</p> <p>Basic standards: Evidence of provisions to mitigate risk of environmental impacts, including treatment of effluent, management of hazardous waste, and storage of chemicals.</p> <p>Where gross infringements are identified, factories will need to implement timebound corrective action plans.</p> <p>Remarks: A new methodology for target setting and achievement will be used from reporting year 2023 onwards. Natural rubber processing factories (suppliers) are assessed once a year or once every two years based on their performance ranking. These assessments support supplier compliance with its Quality standards and Purchasing Principles and aside from quality issues, also address the application of the health, safety, environmental and human rights standards.</p>
14	% of supply with 'confirmed' performance on environment practices as assessed by EcoVadis	<p>% of supply = % of NR spend* year -1</p> <p>*% of NR spend closely approximates % of supply volume, used for EcoVadis-related indicator as EcoVadis assessments are used across all purchasing domains and % spend is used to measure coverage.</p> <p>'confirmed' performance = total score of supplier meeting confirmed grade as per the EcoVadis assessment methodology ($\geq 45/100$); environment pillar meeting minimum of 50/100</p>
15	Volume of pesticides used in own and joint venture plantation operations against 2019 baseline	<p>Volume = volume/ha/year; kg of Active Ingredient (a.i.)</p> <p>Ha = Ha planted with natural rubber. Baseline is 2019.</p> <p>WHO class Ia & Ib = 0</p> <p>Class Ia (extremely dangerous), Ib (highly hazardous), Class II (moderately hazardous), class III (slightly hazardous), U (unlikely hazardous).</p> <p>Class Ia & Ib = 0%.</p> <p>Class II & III to be reduced.</p>
16	RubberWay smallholder jurisdictional level risk mapping summary (Environment)	<p>Jurisdictional-level risk mapping summary (Protecting the Environment) from RubberWay to be displayed on the web dashboard.</p>

DEFINITIONS

Def#	Action / Indicator	Definition
17	# jurisdictions with intervention programs relating to 'environment'	Cumulative number of jurisdictions where programs that address risks, identified through RubberWay, are taking place. Programs include those conducted directly by Michelin, joint ventures and its supply chain by suppliers.
18	# initiatives taken to reduce pesticide use by smallholders	Similar guidelines to those applied in owned and joint venture natural rubber plantation operations will be embedded in agricultural training and capacity building programs and interventions. Performance of owned and joint venture plantation operations are considered to be demonstration pilots for widespread adoption across the industry.
19	RubberWay smallholder jurisdictional level risk mapping summary (Agricultural Training)	Jurisdictional-level risk mapping summary from RubberWay to be displayed on the web dashboard
20	# initiatives to support or collaborate with training bodies	-
21	High-yielding certified saplings produced and supplied to farmers by Group and joint ventures	High-performing varieties of natural rubber trees (saplings a.k.a. rubber clones) that are produced in Group-owned and joint venture plantation operations and supplied to farmers. These are either sold at cost price, or at reasonable prices that are economical for farmers.
22	# of field training for farmers on Best Agricultural and ESG practices through Group and joint ventures	Number of individual trainings (one farmer can attend multiple trainings in a year. Can be conducted by Group-owned or joint venture operations, or through direct intervention projects.
23	# of smallholder farmers who have received training in holistic capacity building projects	Number of smallholder farmers and local community extractors that have received training under one of Michelin's capacity building projects. Holistic capacity building projects: Projects that aim to address both farmer livelihoods and environmental and social challenges. Themes include good agricultural practices, environment and social training, and improving working conditions and living standards.

DEFINITIONS

Def#	Action / Indicator	Definition
24	# of smallholder farmers whose working conditions and/or livelihoods have improved as a result of mitigation projects	<p>Number of smallholder farmers that have reported an improvement in their working conditions and/or livelihoods after being part of capacity building projects deployed by Michelin.</p> <p>Working conditions have improved: Smallholder farmer or producers have experienced at least one of the following:</p> <ul style="list-style-type: none"> • Adoption of improved health and safety practices (increased use of PPE, better ergonomics) • Reduction of potentially harmful chemical use (e.g. sulfuric acid in coagulation, hazardous pesticides and herbicides) <p>Livelihoods have improved: Smallholder farmer or producers have experienced at least one of the following:</p> <ul style="list-style-type: none"> • Improved yields of primary crops • Increased farm revenues • Income diversification from the implementation of non-rubber crops • Increases in overall farm value (e.g., value of new crops or trees in the context of intercropping or agroforestry, value of new non-farm activities as a result of increased on-farm efficiency) • Direct above-market incentives or payments (e.g., producers receiving price premiums under 'payment for ecosystem services' or 'sustainability premium' frameworks).
25	# smallholder farmers trained on themes relating to biodiversity or agroecological practices	<p>Number of smallholder farmers that have received training related to biodiversity conservation or agroecological practices.</p> <p>Biodiversity: Biodiversity protection, forest protection, agroforestry or other high biodiversity farming systems.</p> <p>Agroecological practices: Diversification and regenerative agricultural techniques (no tillage, cover cropping, complementary intercropping or agroforestry), efficient use and reduction of agrochemicals (pesticide or herbicides), protection of waterways and forests, climate-smart agriculture.</p>
26	CO ₂ calculator; C equations updated in Africa; C equations updated in Asia & for Smallholder	CO ₂ calculator developed and running

DEFINITIONS

Def#	Action / Indicator	Definition
27	Update of Sustainable Natural Rubber Policy 2021	-
28	Stakeholders consultation	1 Stakeholder dialog every 2 years
29	Publication of complete SNR (Sustainable Natural Rubber) dashboard	Web dashboard reporting on indicators in the Sustainable Natural Rubber Roadmap published on the Michelin Purchasing website
30	Grievance system available	An accessible grievance mechanism (consistent with UNGP effectiveness criteria and OECD guidelines) will be set up by 2021 to enable stakeholders to express their grievance independently and to give opportunities to remedy adverse impacts caused through production or sourcing.
31	% supply suppliers having a publicly available SNR (Sustainable Natural Rubber) policy in line with GPSNR framework	Supply = NR spend for tier 1 suppliers / Total Michelin NR spend (year - 1)
32	% of supply with 'confirmed' performance on ethics as assessed by EcoVadis	<p>% of supply = % of NR spend* year - 1</p> <p>*% of NR spend closely approximates % of supply volume, used for EcoVadis-related indicator as EcoVadis assessments are used across all purchasing domains and % spend is used to measure coverage.</p> <p>'confirmed' performance = total score of supplier meeting confirmed grade as per the EcoVadis assessment methodology (≥45/100); ethics pillar meeting minimum of 50/100</p>
33	80% of supply deploying RubberWay solution	<p>% of supply = % of NR volume purchased year - 1</p> <p>[Sum of volume purchased (Y-1) from supplier NR processing factories having implemented RubberWay with 80% of their direct suppliers (Tier 2) on a proportional basis] divided by [Total Michelin volume (Y-1)]</p> <p>Remark 1: [80% of Tier 2 suppliers that should answer to RubberWay to have a significant result]</p> <p>Remark 2: NR processing factories purchasing directly from farmers (West Africa) as a reduced target: 25% of declared smallholders delivering directly at factory.</p>

DEFINITIONS

Def#	Action / Indicator	Definition
34	% supply where source has been risk-assessed at a jurisdictional level (RubberWay)	<p>% of supply = % of NR volume purchased year - 1</p> <p>[Sum of volume purchased (Y-1) from supplier NR processing factories having implemented RubberWay for 5% of their smallholders (theoretical number) on a proportional basis] divided by [Total Michelin volume (Y-1)]</p> <p>Theoretical number of smallholders = NR processing factories declared production 2018 divided by [average yield of country (LMC 2018) * average farm size of country (2018)]</p> <p>Remark 1: NR processing factories purchasing directly from farmers (West Africa) as an increased target: 25% of declared smallholders delivering directly at factory.</p> <p>Remark 2: Corresponds with the Group level Master Policy on Human Rights under Objective 3 (A company whose supply chain ensures decent work for every employee): "Percentage of natural rubber volumes used by the Group covered by human rights assessments of a representative sample of farmers (via the RubberWay® application)".</p>
35	Active & constructive participation in natural rubber industry and multi-stakeholder platforms	Examples of platforms include natural rubber industry platforms, including sustainability related working groups within industry platforms, and multi-stakeholder initiatives such as GPSNR
36	Smallholder representatives approved at GPSNR General Assembly (GA)	-
37	GPSNR policy framework defined	-
38	Assurance model and policy implementation approved at GPSNR GA	-
39	Consultations to garner industry group alignment on EU Due diligence and imported deforestation	-

DEFINITIONS

Def#	Action / Indicator	Definition
40	NR Sourcing Control (matrix) published	A structured reporting framework on sourcing control that captures both aspects of traceability and risk control or mitigation will be published.
41	% of supply where source is known	% of supply = % of NR volume purchased year - 1 Source known = source is traceable to supplier (individual natural rubber processing factory)
42	% supply where source has been risk-assessed globally	% of supply = % of NR volume purchased year -1 Risk-assessed globally: where sourced has been risk-assessed for deforestation and other high-priority risks as part of a global risk assessment (e.g. spatial analysis etc.) or with other tools of equivalent or higher resolution that achieve the same purpose (e.g. RubberWay at a jurisdictional level).
43	% supply where has been risk-assessed and engaged	% of supply = % of NR volume purchased year -1 Risk-assessed at jurisdictional level: Supply has been jurisdictionally risk-assessed with RubberWay (see indicator 34) Engaged: Where significant risk is identified based on findings from RubberWay and threats are detected, suppliers (or other supply chain actors) are implementing mitigation or engagement actions. Where risk is under control, engagement is not mandatory (and rubber supplied automatically qualifies for the indicator).
44	% supply from medium and industrial plantations traceable to plantation level	Data includes information from supplier declarations and supply chain studies, and sourcing mix from each individual processing factory is assigned proportionally based on Michelin purchased volume per factory (e.g. if Michelin sources 10% from a factory, and the factory has 50% of its own supply from industrial plantations traceable to industrial level, this accounts for as 5% of volume traceable in Michelin's sourcing). Traceability refers to knowledge of farm or plantation location (geolocation through central GPS location or address) or boundary information (polygon). Industrial plantations: >500ha. Medium plantations: <500 and >50ha. Medium plantations are typically owned by individual landowners and exist in limited number primarily in West Africa and South America; they are sometimes difficult to differentiate from smallholder farms. Michelin working with its suppliers to refine the delineation between small and medium farms, as well as to consider specific approaches for non-industrial medium farms.

DEFINITIONS

Def#	Action / Indicator	Definition
45	% supply from smallholders traceable to jurisdictional level	<p>Data includes information from supplier declarations and supply chain studies, and sourcing mix from each individual processing factory is assigned proportionally based on Michelin purchased volume per factory (e.g. if Michelin sources 10% from a factory, and the factory has 50% of its own supply from smallholders traceable to jurisdictional level, this accounts for as 5% of volume traceable in Michelin's sourcing).</p> <p>Traceability to smallholders at jurisdictional level currently defined as minimum 'province level or equivalent' (sub-national level), but generally follows administrative divisions used in RubberWay (e.g. Côte d'Ivoire-Department; Indonesia-Regency; Thailand-Province).</p> <p>Smallholders definition follows GPSNR definition.</p>

Appendix: Version Control

Version number	Published	Change Log
V1.0	31 October 2020	nil
V1.1	24 January 2022	<p>Indicator 42 and 43 : New indicators added</p> <p>Indicator 4 and 11: Updated 'estate' terminology to more widely used 'industrial plantations'. Added note on medium farms.</p> <p>Indicator 31 and 32: Minor changes in phrasing for clarity with no material change on meaning</p> <p>General: Some corrections of spelling errors</p>
V1.2	04 July 2023	<p>Indicator 1 and 12: Changed "annually thereafter (once every two years for factories in West Africa)" to "once a year or once every two years based on their performance ranking"</p> <p>Indicator 2 and 13: Added revised Indicator wordings for 2023-2025 with remarks explaining the change</p> <p>Indicator 5: Goal postponed to 2023</p> <p>Indicator 7, 8, and 17: Minor changes in definition phrasing for clarity</p> <p>Indicator 23, 24 and 25: New indicators added</p> <p>Indicator 34: Added Remark 2</p> <p>Indicator 44: Updated indicator to include traceability to medium plantations</p> <p>V1.1 Roadmap indicators 24-25: Changed indicator numbers to 26-45 due to the addition of new indicators</p>



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