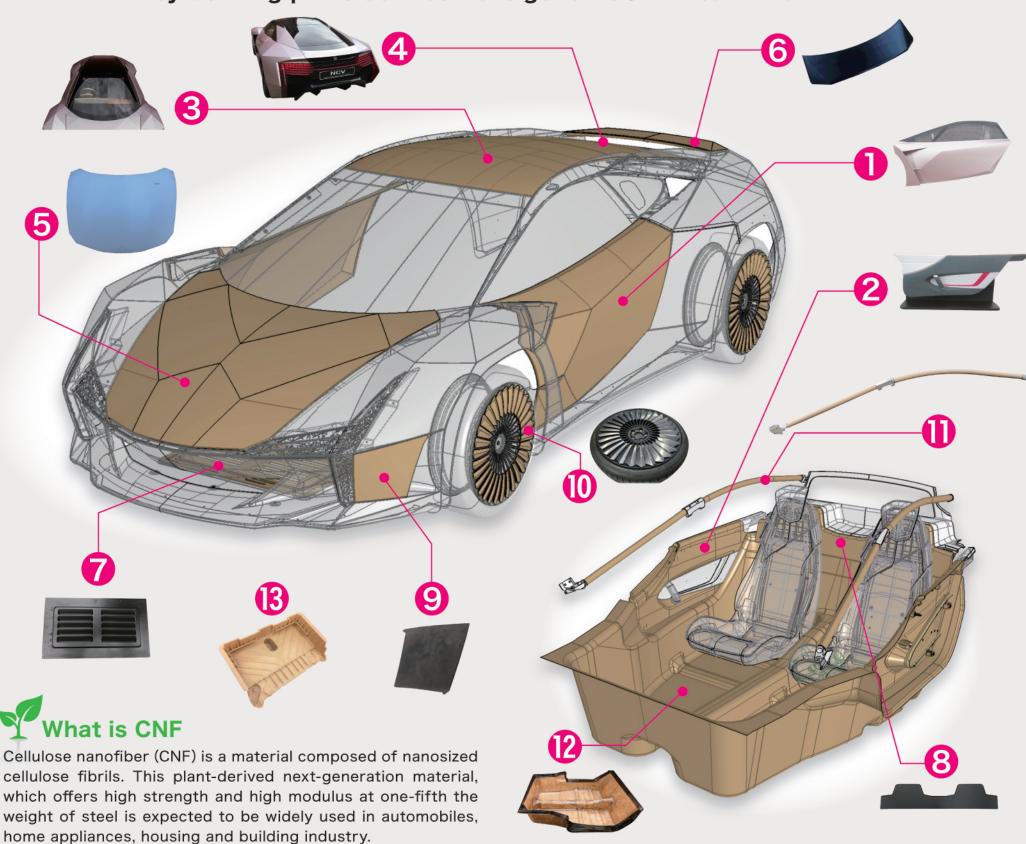
Future Car made from Woods

Challenge to weight reduction of automobile by utilizing plant-derived next-generation material "CNF"!



	Automotive Parts	Materials	Compound Ratio of CNF	Molding Method	Manufactured by
0	Door Outer Panel	PP-CNF composite	10%	Injection Molding	TOYOTA BOSHOKU CORPORATION
2	Door Trim	PP-CNF composite	10%	Injection Molding	TOYOTA BOSHOKU CORPORATION
3	Roof Panel	PC-CNF	15%	Injection compression molding	TOYOTA MOTOR EAST JAPAN, INC.
4	Back Door Glass	PC-CNF	15%	Injection compression molding	TOYOTA MOTOR EAST JAPAN, INC.
6	Bonnet	CNF	100%	Hot Press Molding	RISHO KOGYO CO., LTD.
6	Rear Spoiler	PP-CNF composite	10%	Blow Molding	KYORAKU CO., LTD.
7	Undercover	PP-CNF composite	10%	Blow Molding	KYORAKU CO., LTD.
8	Package Tray Front Cover	PP-CNF composite	10%	Injection Molding	INOAC CORPORATION
9	Front Bumper Side	PA6-CNF composite	10%	3D Prineted (Powder Bed Fusion) Molding	KYOTO UNIVERSITY/ NAGOYA INSTITUTE OF TECHNOLOGY
0	Wheel Fin	PA6-CNF composite	10%	3D Prineted (Powder Bed Fusion) Molding	KYOTO UNIVERSITY/ NAGOYA INSTITUTE OF TECHNOLOGY
0	Roof Side Rail	Aluminum Tube & CNF-paper	100%	CNF Paper Winding	SHOWA MARUTSUTSU CO., LTD.
P	Floor Parts	Epoxy-CNF	30~50%	RTM (Resin Transfer Molding)	KANAZAWA INSTITUTE OF TECHNOLOGY/ TOYOTA CUSTOMIZING & DEVELOPMENT Co., Ltd.
B	Battery Carrier	PP-CNF composite	20%	Injection Molding	TOYOTA AUTO BODY CO.,LTD.







(New Energy and Industrial Technology Development Organization)



NCV Project