



## PRESS RELEASE

### NTN, a player in new forms of mobility

Annecy, September 2021 - With a presence of more than 100 years in the mobility sector and in particular in the cycle sector, NTN, a world leader in bearings, is in the ideal position to observe the development taking place in this market and the emergence of issues around new forms of mobility, especially electric.

On 27 September, NTN took the opportunity of the Meeting of the bicycle sector which was held in Lyon to present its mechanical and mechatronic solutions dedicated to the bicycle of the future.

#### TOWARDS NEW FORMS OF MOBILITY

Born from the need to turn to means of transport that are more environmentally friendly and sustainable, the new mobility market has experienced a real boom in recent years. Recently, it has developed further during the global health crisis (the development of telecommuting, the modification of modes of travel, the reluctance to take public transport as well as the increase in home deliveries) and with the implementation of the Green Deal, pushing for the decarbonisation of transport.

Always a strong player in mobility in the automotive, power-driven two-wheeler, rail and aeronautics sectors, NTN has an indisputable legitimacy in this growing market. The Group is able to offer a full range of products and services. The development of new products is based on mechanical and mechatronic solutions previously designed for the automotive and robotics markets and adapting them to new forms of mobility which share similar technical issues.

#### NEW FORMS OF MOBILITY: WHAT TYPES OF VEHICLES?

New forms of mobility are said to be environmentally friendly. These means of transport are equipped with electric motors in order to respond to climatic, energy and health challenges. They can be classified into two categories:

- Those for the transport of equipment such as vehicles dedicated to last mile logistics, drones, etc.
- Those for the transport of people such as self-driving cars, mini-cars, air taxis or even conventional and electric 2-wheelers. These constitute a key market in which NTN has a long-standing presence thanks to long-term customers.

#### CYCLE MARKET: STRONG POTENTIAL FOR NTN

Well known to NTN, the cycle is today a flagship market for the manufacturer who is already involved in the manufacture of all the bearings and plunger blocks for components that make up a bicycle: from the stem to the wheels, from the derailleur to the crankset. Indeed, NTN offers a comprehensive range of mechanical solutions integrating the dimensional constraints inherent in the cycle. With a minimum footprint, these compact and reliable bearings guarantee effective sealing and low torque for optimised mechanical efficiency.



Electric bikes, which are experiencing strong demand, generate new requirements for bearings and sensors for the motors and associated reducers. To meet this expectation, NTN relies on 30 years of expertise in ASB technology for the automotive industry and the development of magnetic motion measurement solutions, which are particularly popular today for the control of electric bicycle motors. These proven and robust mechatronic solutions also enable the measurement of wheel rotation speed, pedalling frequency, torque, etc., and provide a set of data essential to the operation of these high efficiency ebikes. At the same time, NTN continues to develop new solutions every day by involving market players to confirm their interest.

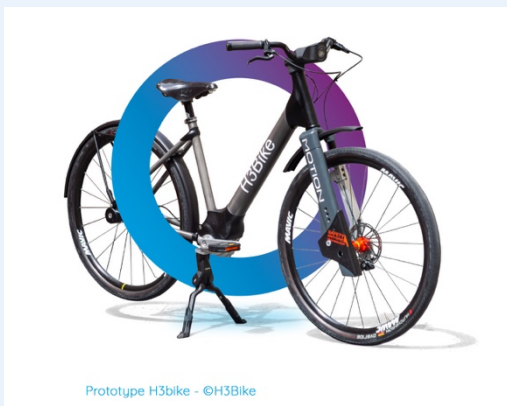
An industrialist recognised worldwide for the quality, reliability and high added value of its products, NTN relies on the complementarity of its range of mechanical and mechatronic solutions in order to stand out from the competition.

Furthermore, NTN is also developing its service range and offering a charging station concept.

*"In partnership with NTN Japan, which has already developed a similar product, NTN-SNR in Europe is considering building an offering around charging stations for electric bicycles. Completely autonomous, they are based on renewable energies and would enable us to offer users the possibility of recharging their bicycle and smartphone batteries, as well as additional services such as repairing their bicycle for example",* explains Olivier Blanchin, NTN-SNR Product Innovation Manager.

### H3 BIKE: A BICYCLE ECOSYSTEM

Formed by a consortium of several companies to improve mobility, this project aims to develop an electric bicycle equipped with a robotic automatic gearbox as well as its entire ecosystem, namely the charging stations and the range of services that go with it. The H3 Bike project targets local authorities, companies and individuals. As a preferred partner, NTN contributes by supplying all the necessary bearings and sensors.



### CROSS-FUNCTIONAL SOLUTIONS FOR MOBILITY

Beyond bicycles, all new forms of mobility, with or without electric motors, can rely on mechanical solutions and mechatronic measurements developed by NTN thanks to its expertise in the automotive and cycle markets.

*"The cross-functionality of these solutions enables them to find their place in all new mobility markets",* concludes Clotilde Lesigne, Marketing Manager of the OEM Industry Business Unit.

### PRESS CONTACTS:

- MIDNIGHT PURPLE

Emilie DESLANDES  
[edeslandes@midnightpurple.fr](mailto:edeslandes@midnightpurple.fr)  
+33 (0) 6 71 24 17 01

Camille HUZE  
[chuze@midnightpurple.fr](mailto:chuze@midnightpurple.fr)  
+33 (0)1 53 20 49 03

- NTN

Marie BASSON  
[marie.basson@ntn-snr.fr](mailto:marie.basson@ntn-snr.fr)  
+33 (0) 04 50 65 99 07