

# **The power of community-driven knowledge in nondestructive Testing**

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The current society can be described as a knowledge society where the value of knowledge is highly valued. This is also shown in the area of nondestructive testing. NDT is particularly used where safety and quality are of great importance. For example, NDT ensures that damage to aircraft, rail networks, energy networks or bridges is detected and repaired at an early stage in order to prevent accidents and other disasters. This field can be described as extremely complex [1] and accordingly relies on different knowledge resources to carry out research, testing and application processes. The broadest possible field of knowledge and open access to NDT-relevant knowledge is therefore of great importance especially with a view to new topics such as NDT 4.0 [2]. This proposal for a contribution takes this as its starting point and uses the example of a community-driven knowledge platform to illustrate the benefits of Community knowledge, in various formats, knowledge sharing and co-creation of knowledge in the field of nondestructive testing. [1] Gandhi, N., Rose, R., Croxford, J. A., Ward, C., (2022): Understanding System Complexity in the Non-Destructive Testing of Advanced Composite Products. *Journal of Manufacturing and Materials Processing* Vol. 6(4). <https://doi.org/10.3390/jmmp6040071> [2] Diederichs, T., Diederichs, M., & Diederichs, R. (2023). Knowledge Sharing as a Central Idea of Open Science and NDT 4.0. 13th European Conference on Non-Destructive Testing 2023. *e-Journal of Nondestructive Testing* Vol. 28(8). <https://doi.org/10.58286/28161>