



# *Success Story Time*

Inspiring Minds, Shaping Futures

# *Dr. Amel Ben Abda*



Dr. Amel Ben Abda is a trailblazing Tunisian mathematician, celebrated for being the first in Tunisia to earn a Ph.D. in applied mathematics.

Her groundbreaking work in mathematical research, particularly in inverse problems, has had a lasting impact on the field, establishing her as a prominent figure in Tunisia and internationally.

# *Educational Background*



Dr. Ben Abda completed her education in Tunisia. She earned her Ph.D. in 1993, focusing on applied mathematics, and later defended her habilitation in applied mathematics in 1998.

This achievement marked her as a pioneer in Tunisia's academic community, where she also became a respected professor at ENIT.



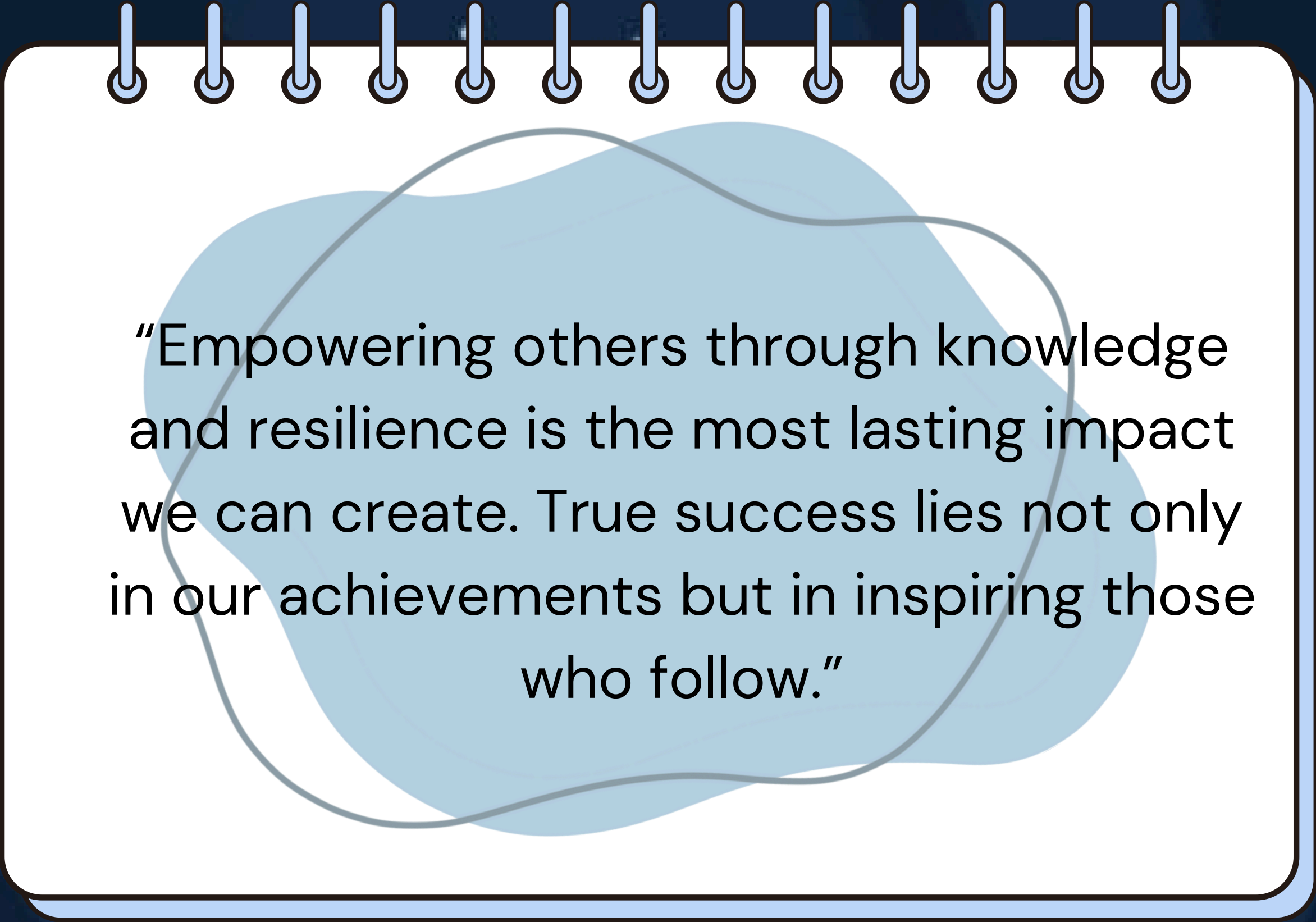
# *Actions*

Dr. Ben Abda has made substantial contributions to solving inverse problems—a branch of applied mathematics dealing with reconstructing unknown information from observed data. She co-developed the "Reciprocity Gap" method, an innovative approach used in identifying material defects. Her work has extended to solving real-world problems in mechanics, material science, and hydrogeology. Through her collaborations with French and North African institutions, she has influenced research projects across Tunisia, Algeria, and Morocco.

# *Impact*



As a mentor and leader, Dr. Ben Abda has shaped the next generation of Tunisian mathematicians. She is the head of the Inverse Problems research team at ENIT's LAMSIN laboratory. Named one of the Top 100 Women by OkayAfrica in 2018, her dedication to mathematics and advocacy for women in STEM make her an inspiring role model for aspiring mathematicians in Tunisia and beyond

A spiral-bound notebook is centered against a dark blue background filled with white stars of varying sizes. The notebook's pages are white, and its spiral binding is light blue. A large, light blue, wavy-edged shape is drawn on the page, serving as a background for the text. The text is a quote in a black, sans-serif font.

“Empowering others through knowledge and resilience is the most lasting impact we can create. True success lies not only in our achievements but in inspiring those who follow.”