Elisabetta Valentina Cucumazzo was born in Bari on 7 February 1974. She graduated with honours in Civil Engineering, with a specialization in Transport Engineering, from the Polytechnic of Bari, and passed her qualification exams soon after.

In 2001, she was awarded an ESF (European Social Fund) scholarship for the Master's degree in "Economy and Management of Transport, Infrastructure and Logistics" at SDA BOCCONI Milan, which she attended until she was hired by the FS Italiane Group in 2002.

In 2002, she joined the FS Group, holding managerial positions of increasing importance in its subsidiary Rete Ferroviaria Italiana.

She immediately started working in the investment sector, starting out by drafting feasibility studies and design projects. Then she joined the Task Force for the introduction of the "RFI New Investment Project Management Method", as Member of the "Central Method Diffusion Unit", and Territorial Agent for the Bari and Ancona area

From the end of 2004, she took on the role of Project Engineer for RFI investment projects in the Bari Area first, and then also in the Ancona Area, dealing with the coordination and technical and management control of interventions.

In 2016, she became Project Manager of the "Adriatic, Basilicata and Naples Projects" of the Southern Area Investment Department, coordinating design and implementation activities, and acting as Head of Proceedings pursuant to the Code of Public Contracts, and as Code and as Head of Works concerning health and safety in the workplace (LD 81/08), for the projects she was responsible for.

In January 2018, she became Head of the "Investment Plans" Structure, within RFI Central Investment Department.

In March 2020, she has been appointed Head of the "Adriatic Projects" Structure of RFI Investment Department, acting as Project Contact Person, for the Project Portfolio in the Adriatic Regions of Apulia, Molise, Abruzzo and Marche and in the Basilicata Region, in charge of designing and implementing the works and pursuing the related time, cost and quality objectives, as well as ensuring the functions of the Head of Proceedings pursuant to the Code of Public Contracts.

Since December 2021, she is a member of the General Council of Confindustria Brindisi, representing Ferrovie dello Stato Italiane SpA.

In 2024, with the Prime Ministerial Decree of 12/12/2024, she was appointed Extraordinary Government Commissioner within the following railway construction projects: Ferrandina - Matera La Martella and Taranto - Metaponto - Potenza - Battipaglia.