Rahayu Mahzam is currently the Senior Parliamentary Secretary at the Ministry of Health and Ministry of Law. She was serving at the Ministry of Communications and Information from May 2021 to 12 June 2022. She has been a Member of Parliament representing the Jurong Group Representation Constituency since September 2015. Prior to her appointment as Parliamentary Secretary in September 2020, Rahayu was a lawyer, specialising in family law.

Rahayu is passionate about supporting residents in need and developing opportunities for people to come together to help one another. She has introduced many social programmes in Bukit Batok East, to help families, support students and uplift women. Her initiatives with volunteers have also led to Bukit Batok East being recognised as a Dementia-Friendly Community in Singapore.

In Parliament, Rahayu has championed the interests of the special needs' community, youth development, as well as efforts to empower women and preserve a strong, multi-racial and multi-religious community.

As Deputy Chairperson of the REACH Supervisory Panel, Rahayu is closely involved in REACH's efforts to seek feedback from the public on national policies and issues. She also contributes nationally through other committees, including the OnePeople.SG Executive Committee and the National Youth Council. She leads the M³ Youth empowerment and mentoring efforts in the Malay/Muslim community. Rahayu was one of the co-chairs leading the efforts of the Conversations on Women's Development. The discussions culminated in a White Paper which was presented in Parliament in May 2022. She also co-chairs the Singapore Together Alliance for Action to tackle online harms, especially those targeted at women and girls. Rahayu is also involved in the Child and Maternal Health & Wellbeing as well as the Inter-agency Taskforce on Mental Health and Well-being.