Influence of climate change and its mitigation measures on global poverty Yumi MARUTA^{1,*}, Shinichiro FUJIMORI¹, Junya TAKAKURA², Ken OSHIRO¹, Kiyoshi TAKAHASHI², Tomoko HASEGAWA³

¹ Department of Environmental Engineering, Kyoto University, Kyoto, Japan. ² Social Systems Division, National Institute for Environmental Studies, Tsukuba, Japan. ³ Department of Civil and Environmental Engineering, Ritsumeikan University, Kusatsu, Japan. * Email: maruta.yumi.23w@st.kyoto-u.ac.jp

Introduction

- significant.

- model of AIM/PHI model

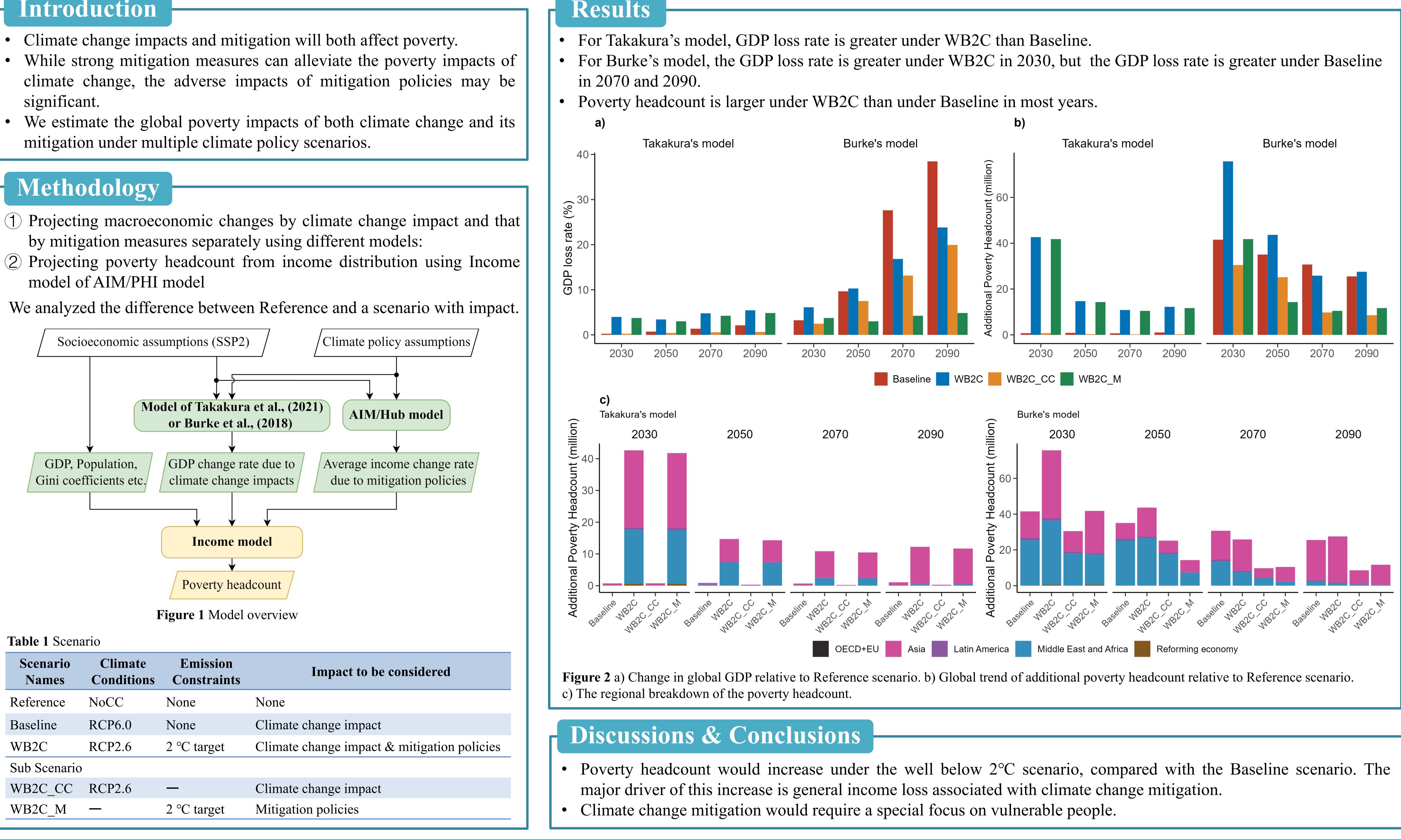


Table 1 Scenario

Scenario Names	Climate Conditions	Emission Constraints	Impact to
Reference	NoCC	None	None
Baseline	RCP6.0	None	Climate change impa
WB2C	RCP2.6	2 °C target	Climate change impa
Sub Scenario			
WB2C_CC	RCP2.6		Climate change impa
WB2C_M		2 °C target	Mitigation policies

Reference : 1) Takakura et al., Reproducing complex simulations of economic impact of climate change with lower-cost emulators, Geoscientific Model Development, Vol.14(5), pp.3121–3140, 2021. 2) Burke et al., Large potential reduction in economic damages under UN mitigation targets, Nature, Vol.557(7706), pp.549–553, 2018. Acknowledgements: This research was supported by the Environment Research and Technology Development Fund (grant JPMEERF20211001) of the Environmental Restoration Agency of Japan, the Sumitomo Electric Industries Group CSR Foundation, and the JSPS KAKENHI grant number 23H01537.

