Demographic Components of the New Socioeconomic Scenarios for Climate Change Research

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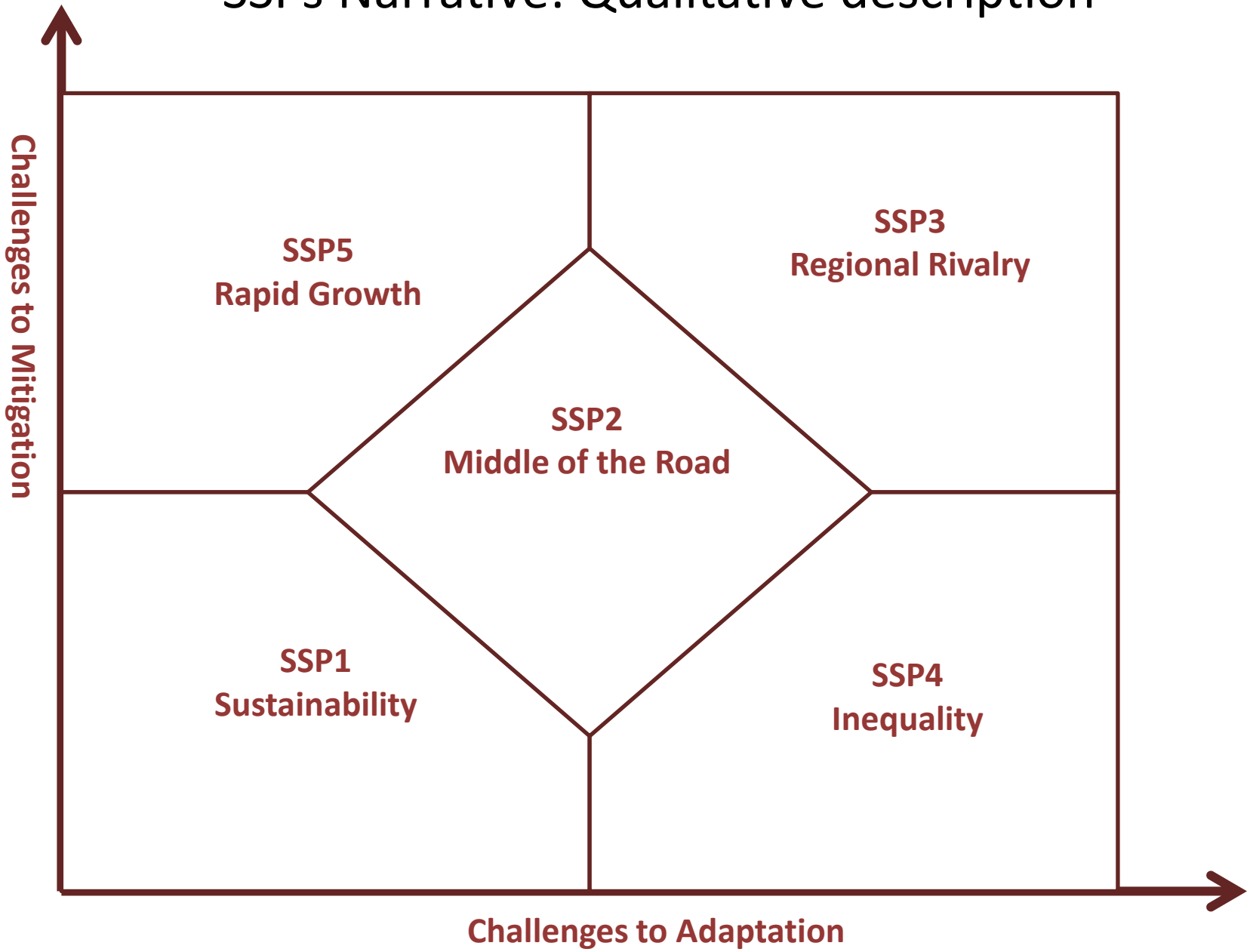
Workshop on Scenarios of U.S. Demographic Change

June 23-24, 2014

SSPs Narrative: Qualitative description



SSPs Quantitative Assumptions: 4 elements for 3 global regions

Challenges to Mitigation

Challenges to Adaptation

	HIC	MIC	LIC
POP	H	L	L
URB	H	H	H
GDP	H	H	H
EDU	H	H	H

	HIC	MIC	LIC
POP	L	H	H
URB	L	L	L
GDP	L	L	L
EDU	L	L	L

	HIC	MIC	LIC
POP	M	M	M
URB	M	M	M
GDP	M	M	M
EDU	M	M	M

	HIC	MIC	LIC
POP	M	L	L
URB	H	H	H
GDP	M/H	M/H	M/H
EDU	H	H	H

	HIC	MIC	LIC
POP	L	L	H
URB	M	H	H
GDP	M	L	L
EDU	M	L	L

SSPs Quantitative Assumptions: Pop. projection variables

Challenges to Mitigation

	OECD	LFt	HFt
Fert	H	L	L
Mort	L	L	L
Mig	H	H	H

	OECD	LFt	HFt
Fert	L	H	H
Mort	H	H	H
Mig	L	L	L

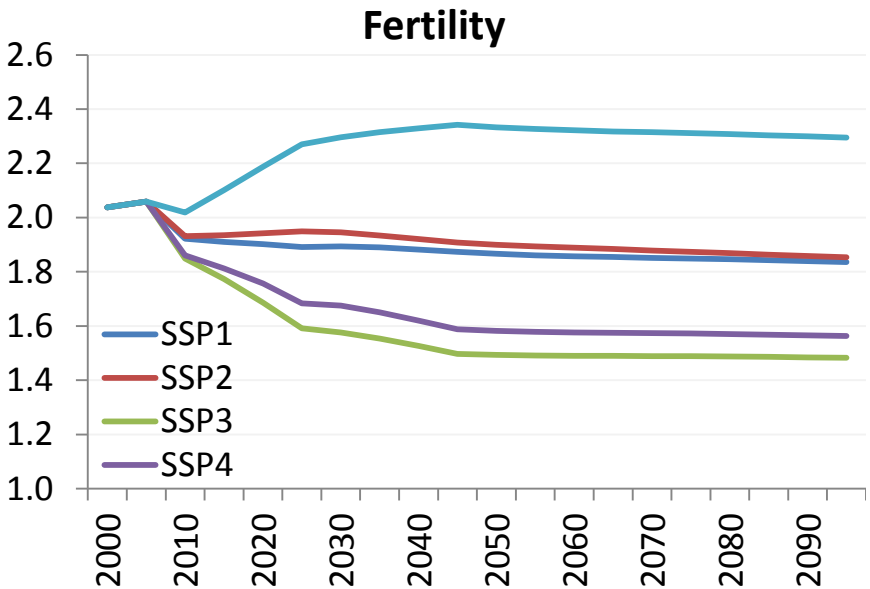
	OECD	LFt	HFt
Fert	M	M	M
Mort	M	M	M
Mig	M	M	M

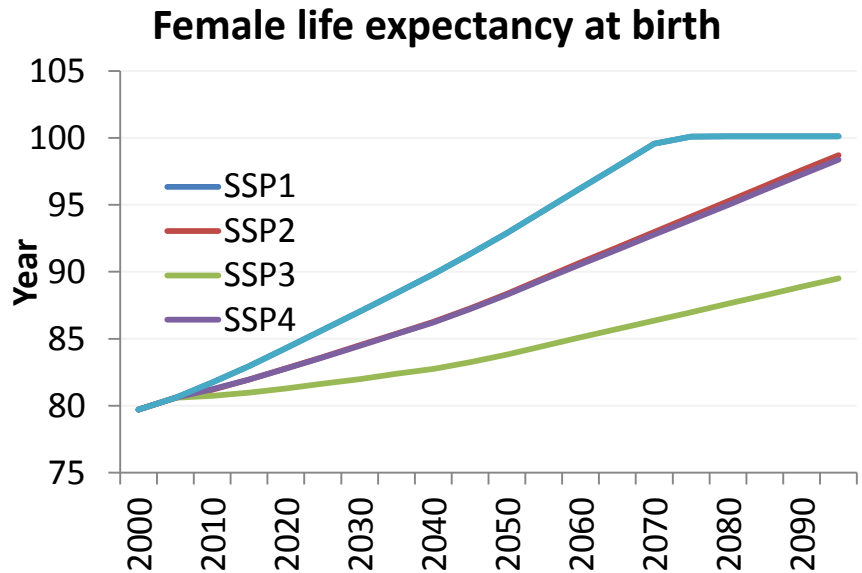
	OECD	LFt	HFt
Fert	M	L	L
Mort	L	L	L
Mig	M	M	M

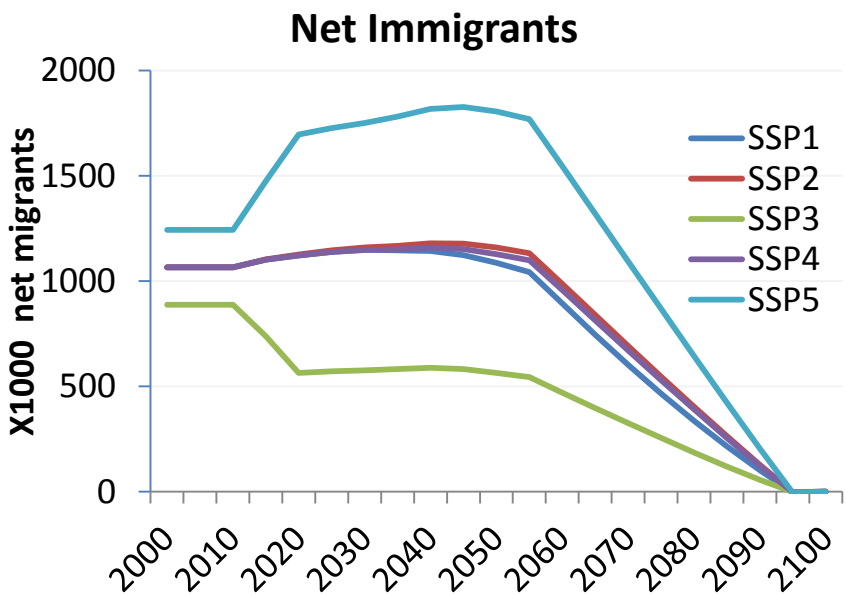
	OECD	LFt	HFt
Fert	L	L	H
Mort	M	M	H
Mig	M	M	M

Challenges to Adaptation

Assumptions on Pop. projections for the US

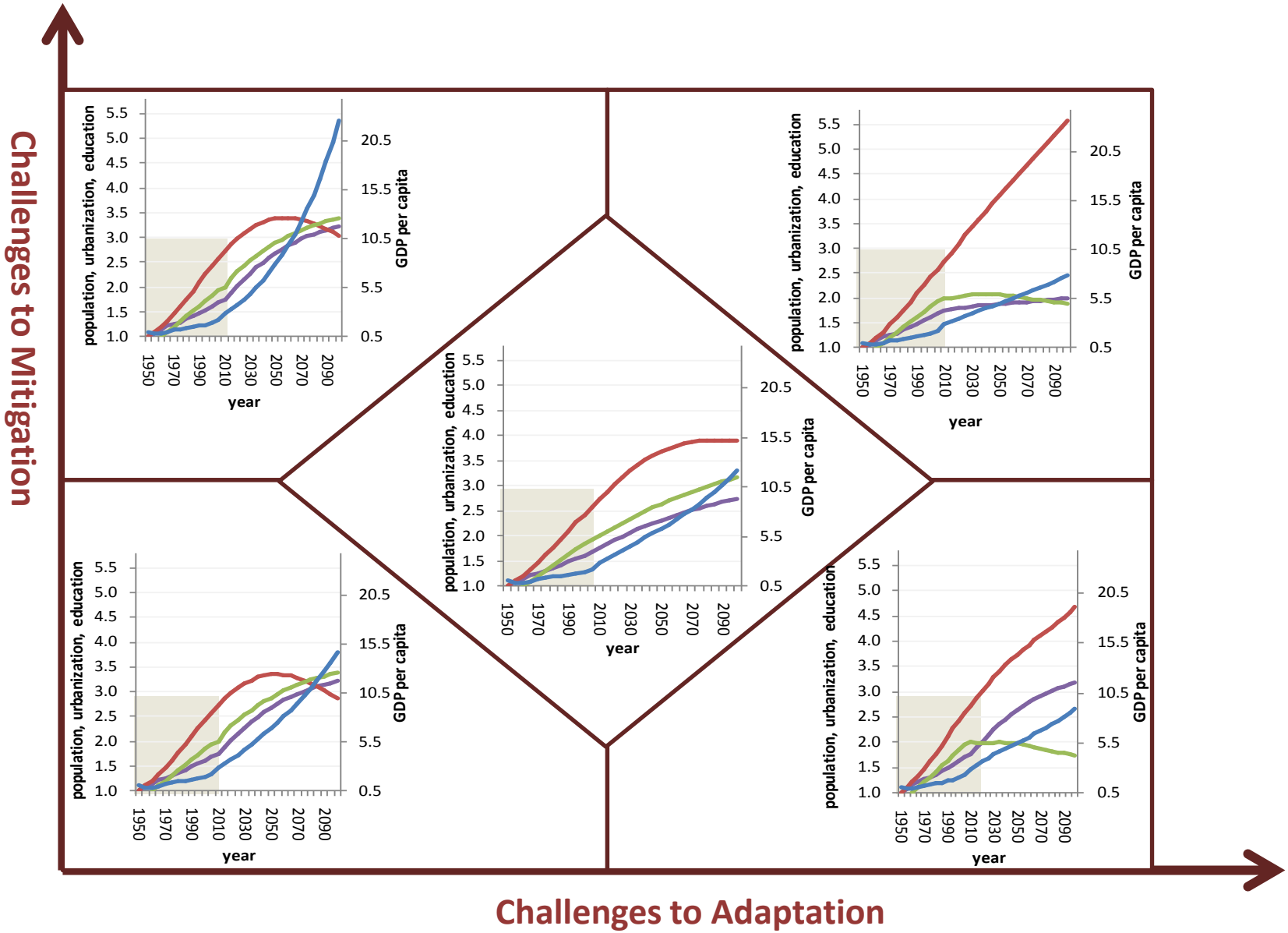






SSPs Global Projection Results: changes relative to 1950

per capita GDP; population size; urbanization; mean year of schooling



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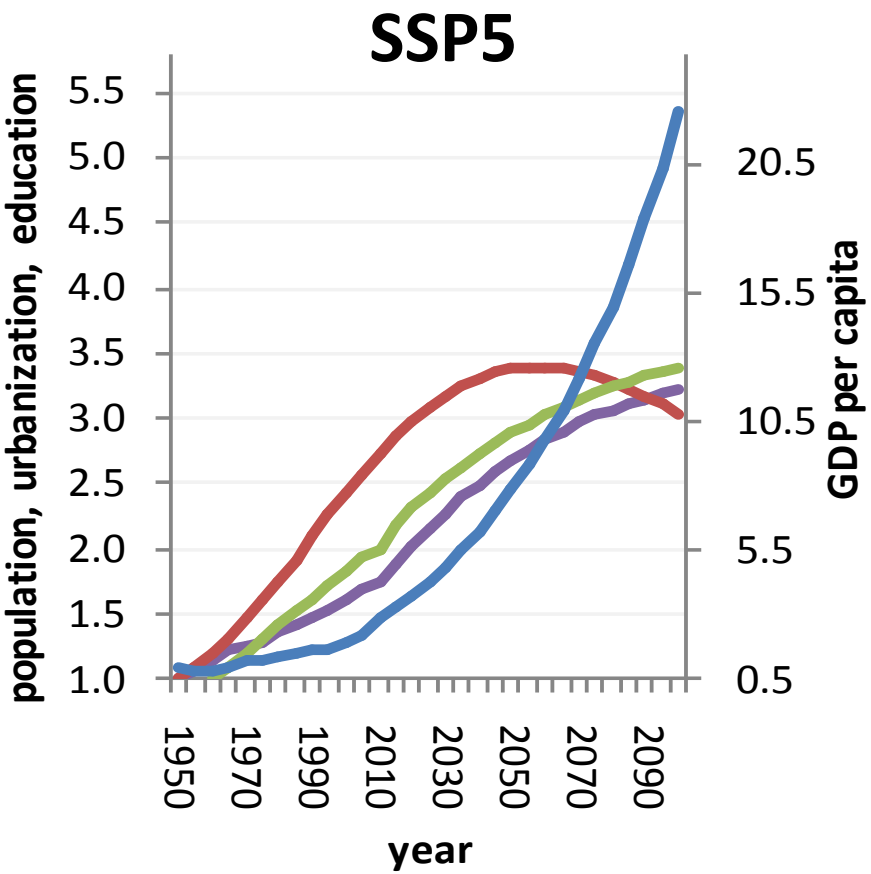
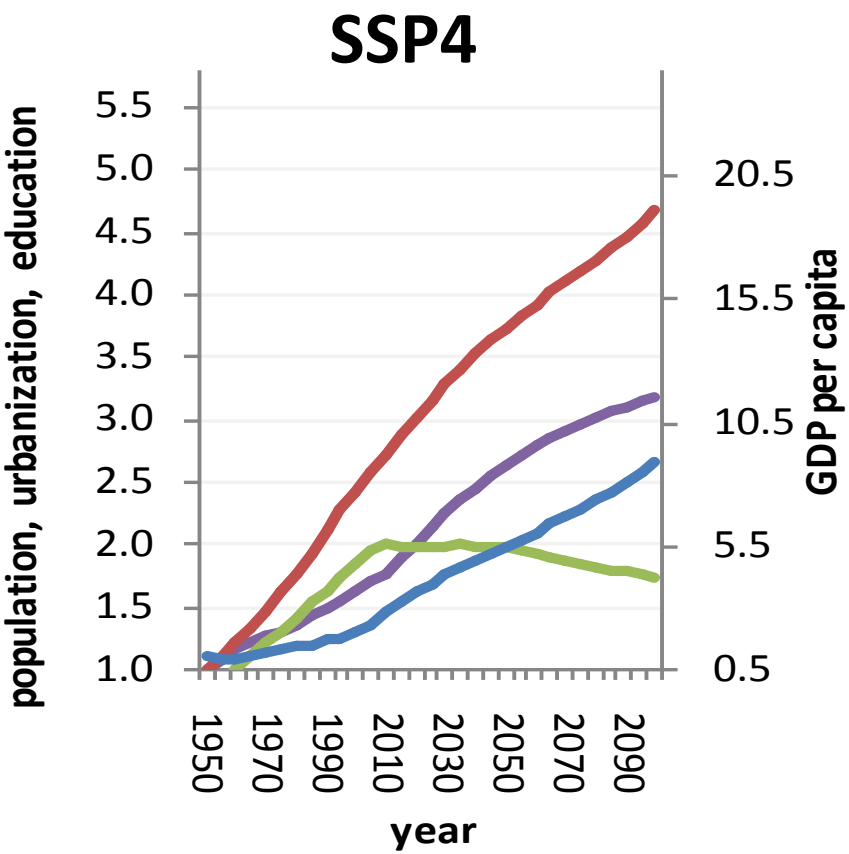
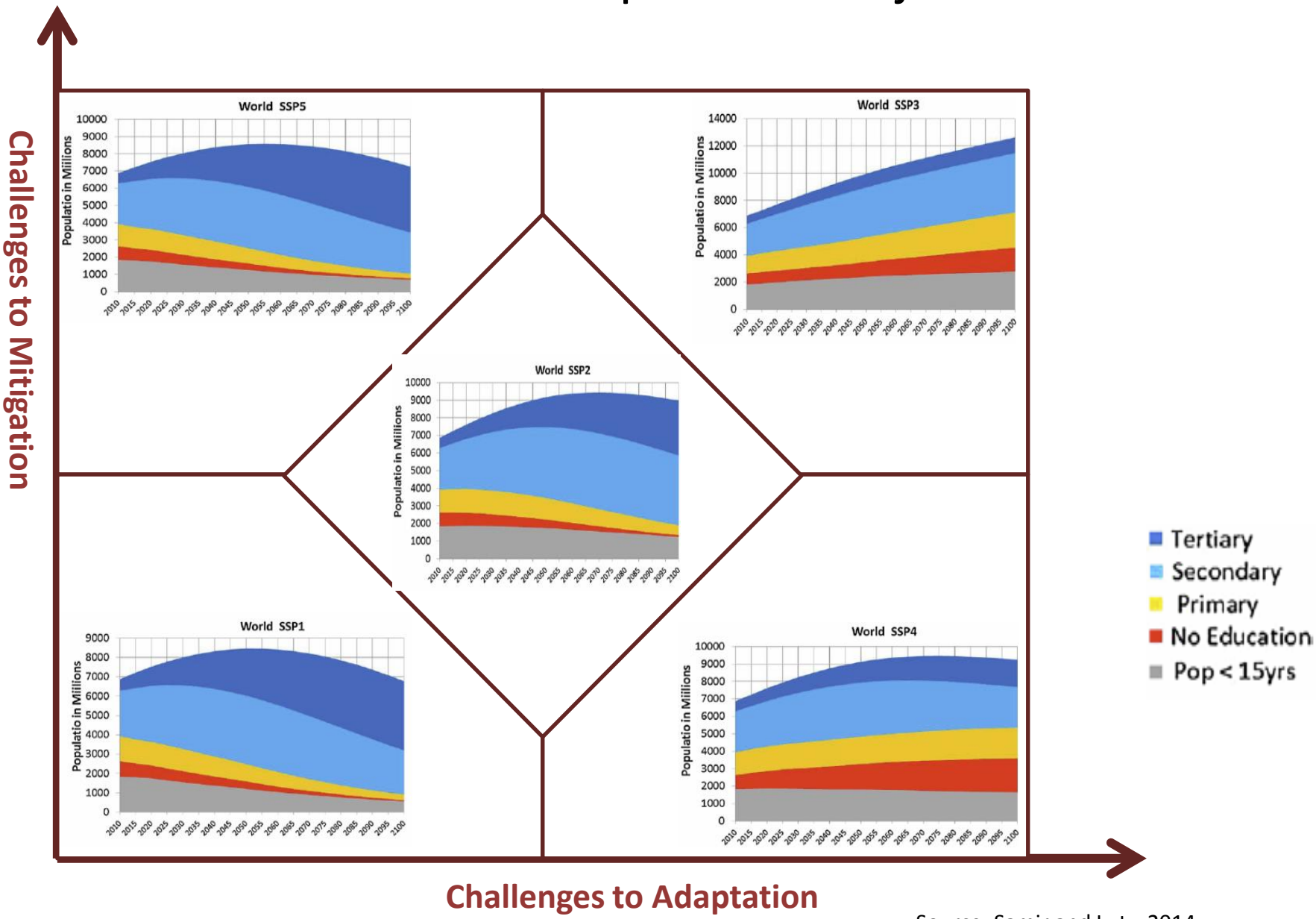


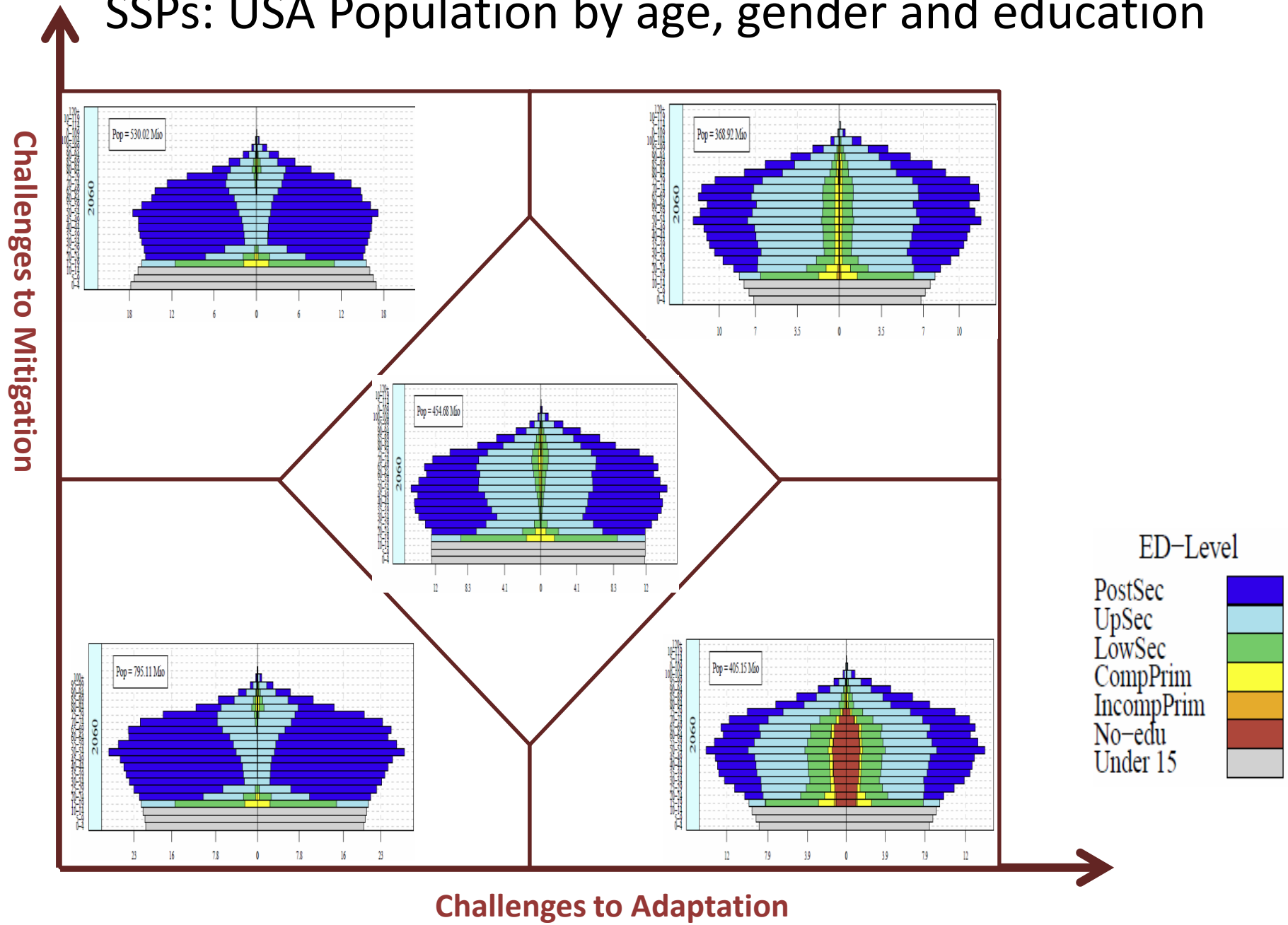


SSPs: Global Population Projection

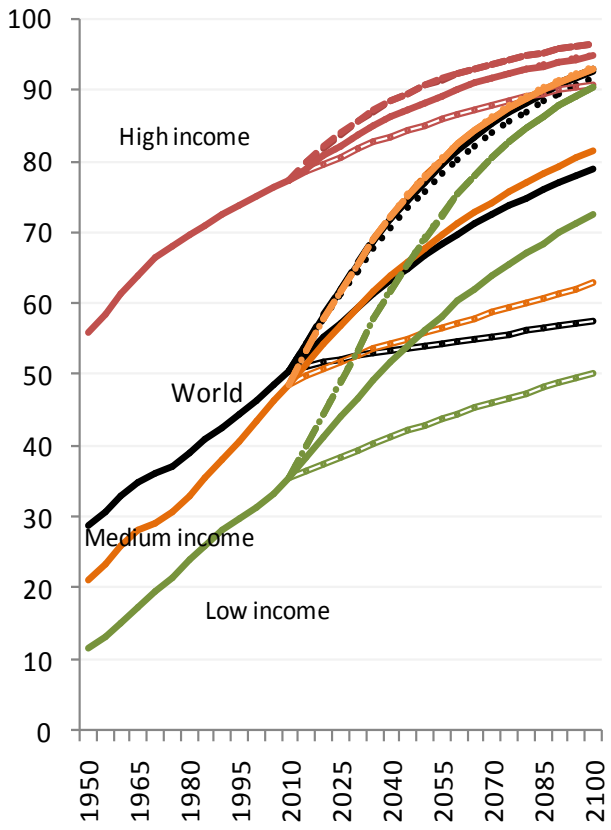


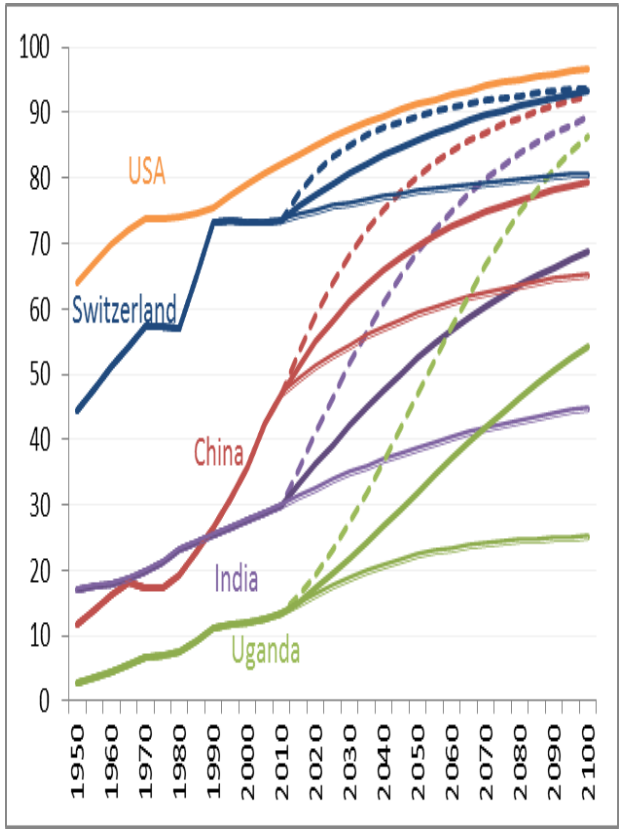
Source: Samir and Lutz, 2014

SSPs: USA Population by age, gender and education



SSPs: Urbanization Projection Results

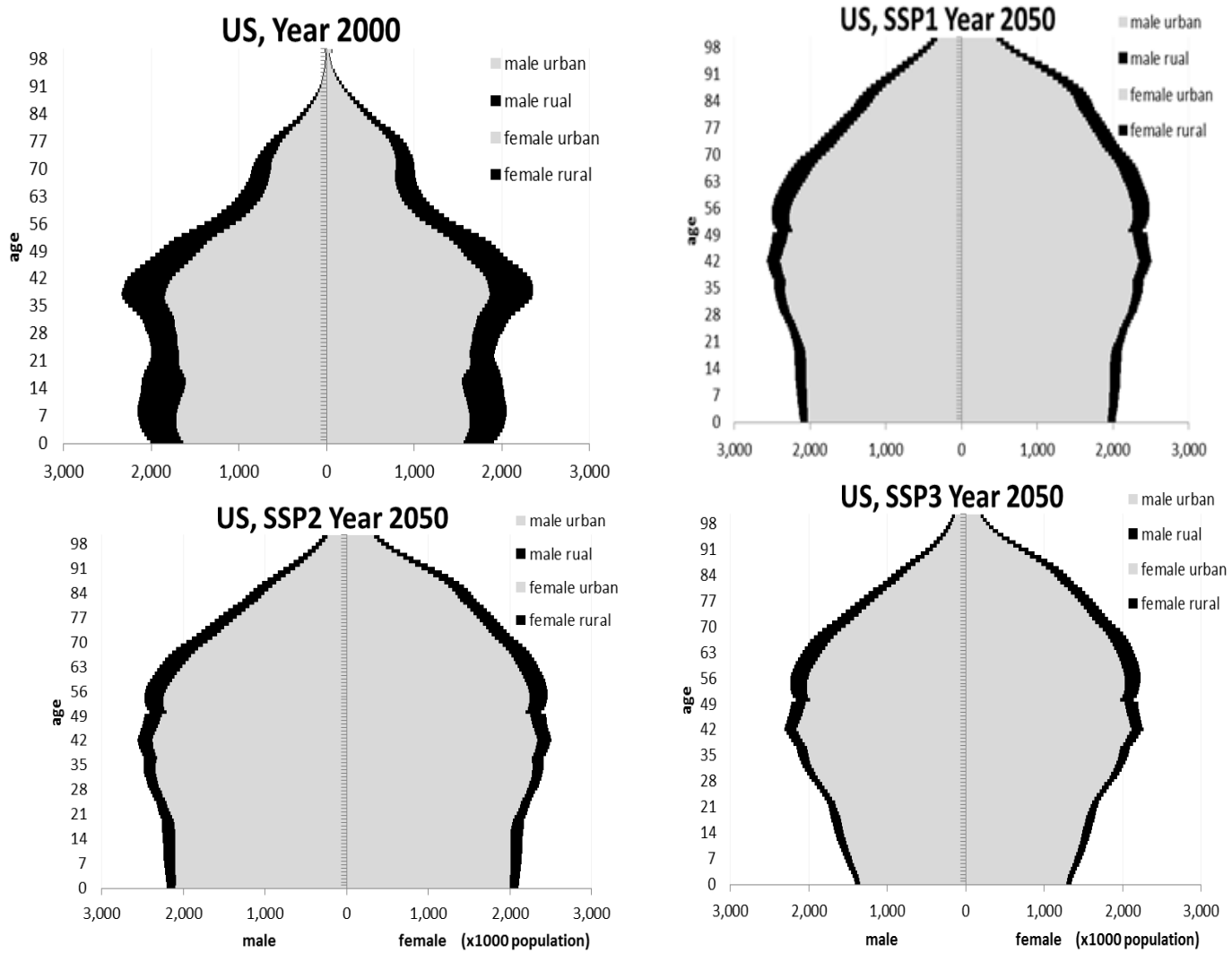
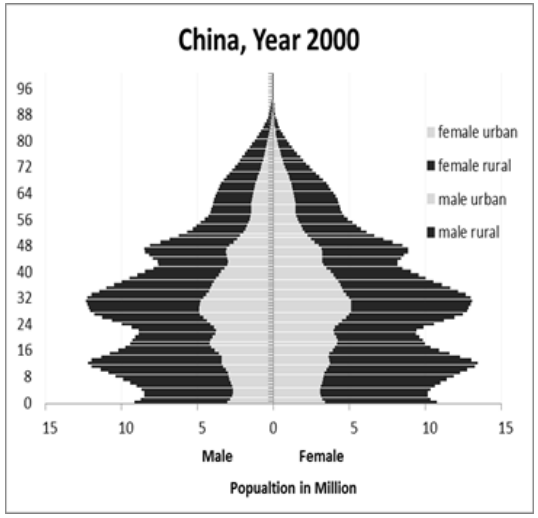
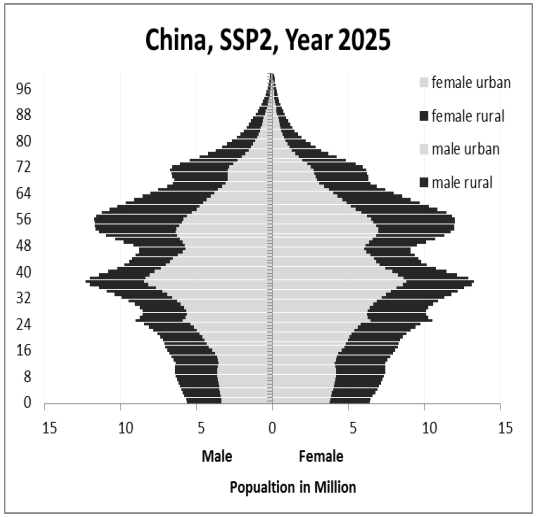
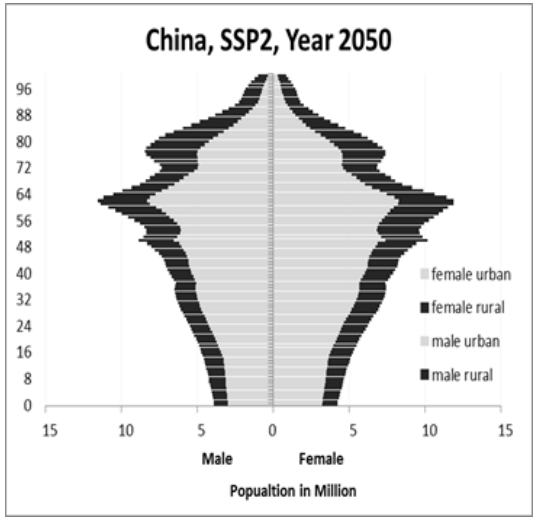
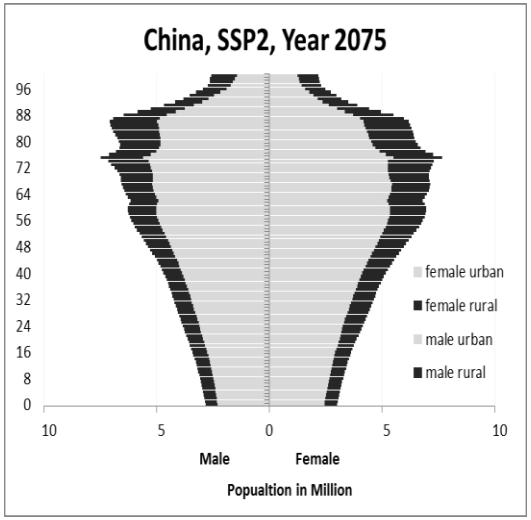




SSP1 SSP2 SSP3 SSP4 SSP5

Source: Jiang and O'Neill, under revision

Multiregional Pop./Urbanization Projection for the US



Multiregional Pop./Urbanization Projection for China