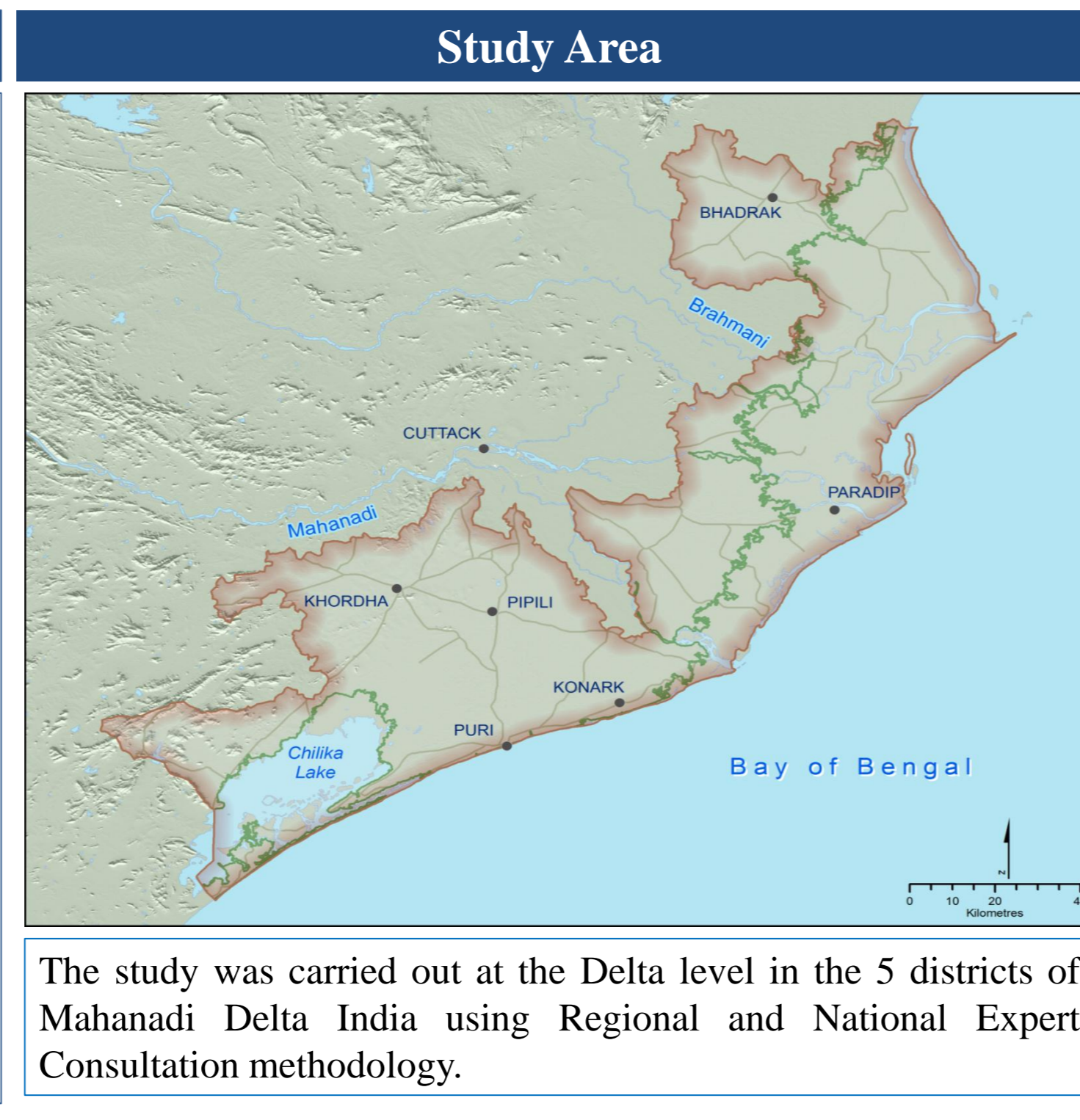


### Introduction

- Scenario is basically a projection of future situation with the development pathways which leads to the possible future situation. Scenario cannot represent the real situation of future but can highlight the drivers of future situation.
- The aim of the study is to explain the process, issues and insights for the regional economic scenarios in India from the "Regional and National Experts Consultation on vision for the short-medium term future".
- The results of this consultation process are the basis for the regional scenarios of Mahanadi Delta, and the poster is also trying to find out the baseline/business as usual scenarios, and a range of likely futures, which need to be put in relation with the more general views about the future based on the country Shared Socioeconomic Pathways (SSP) scenarios.

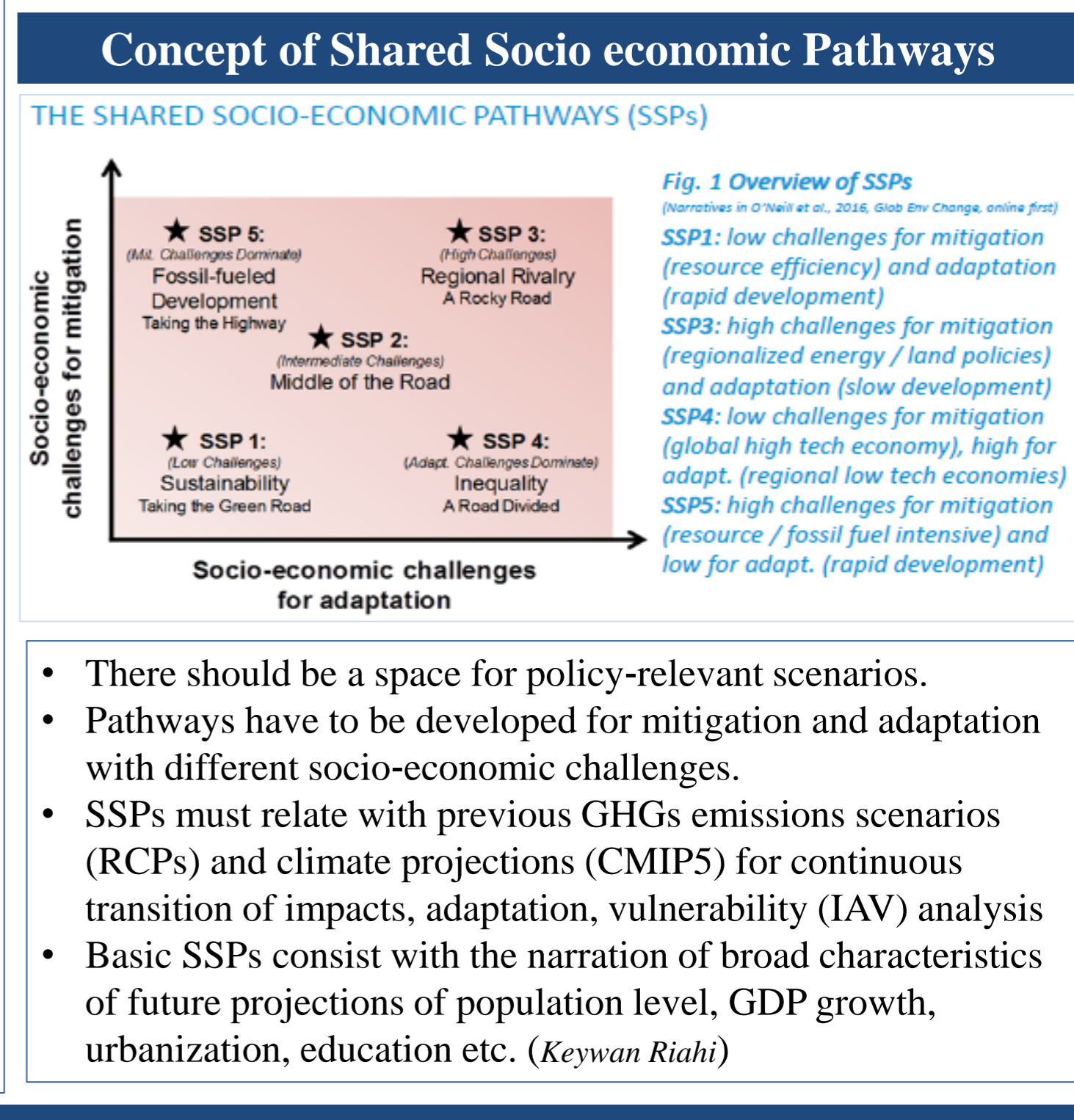
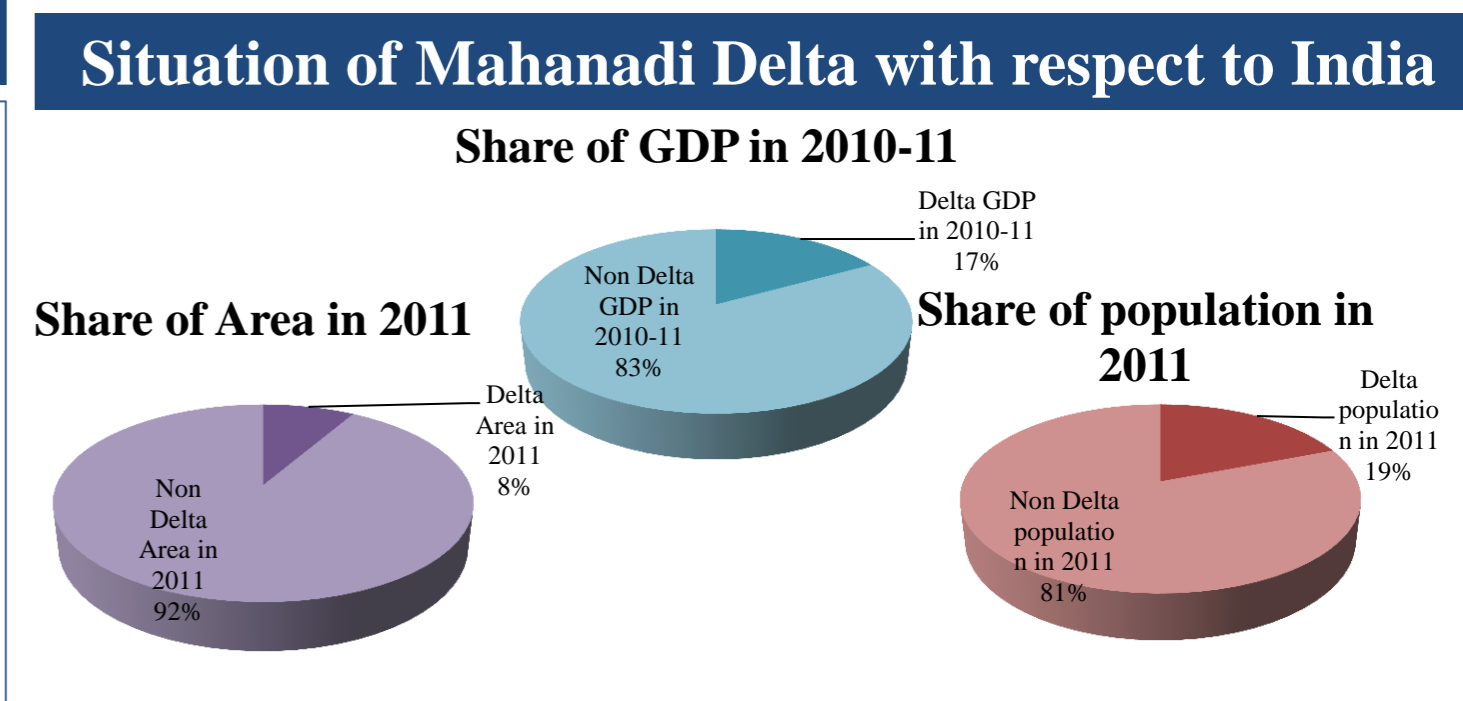
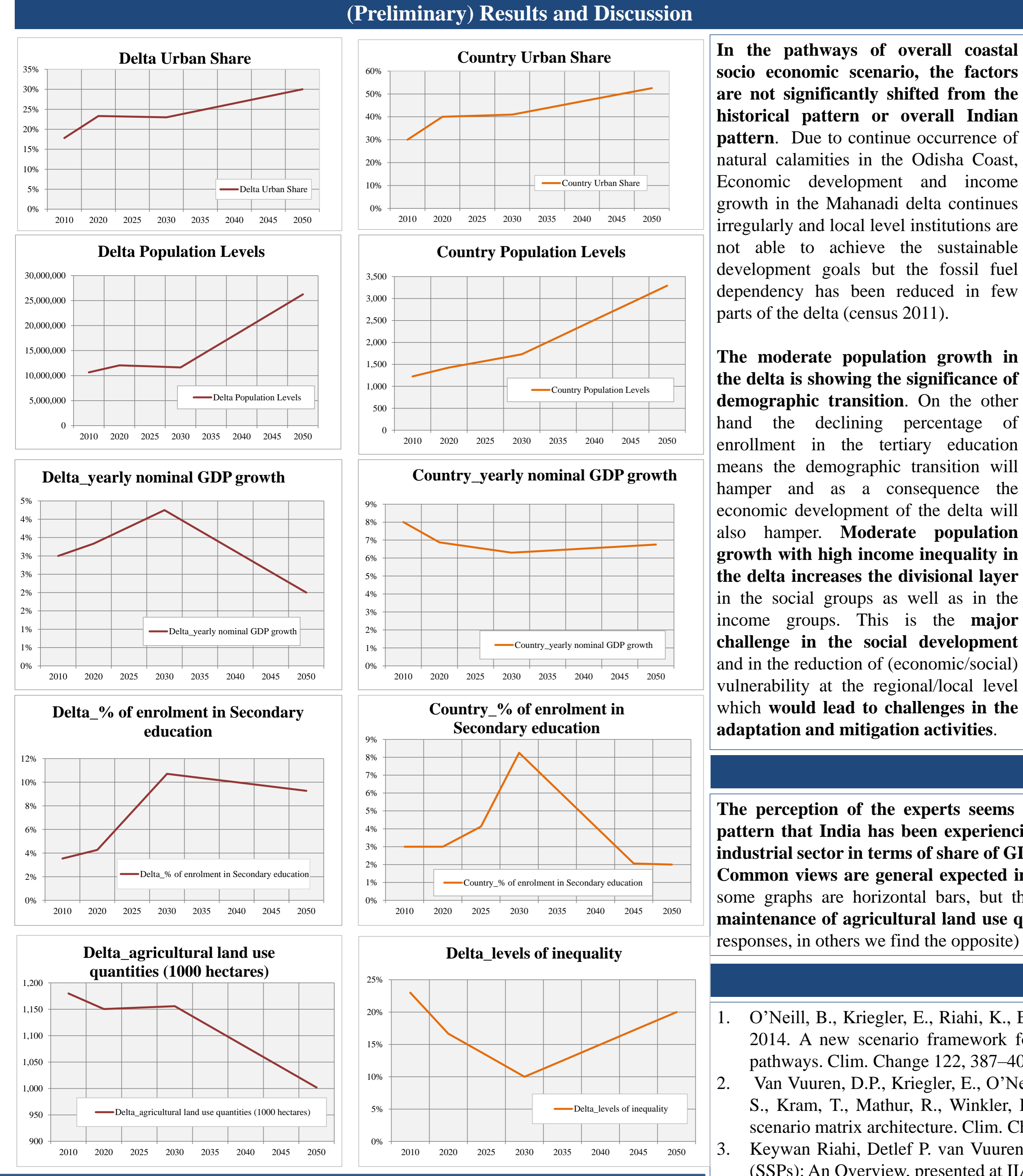
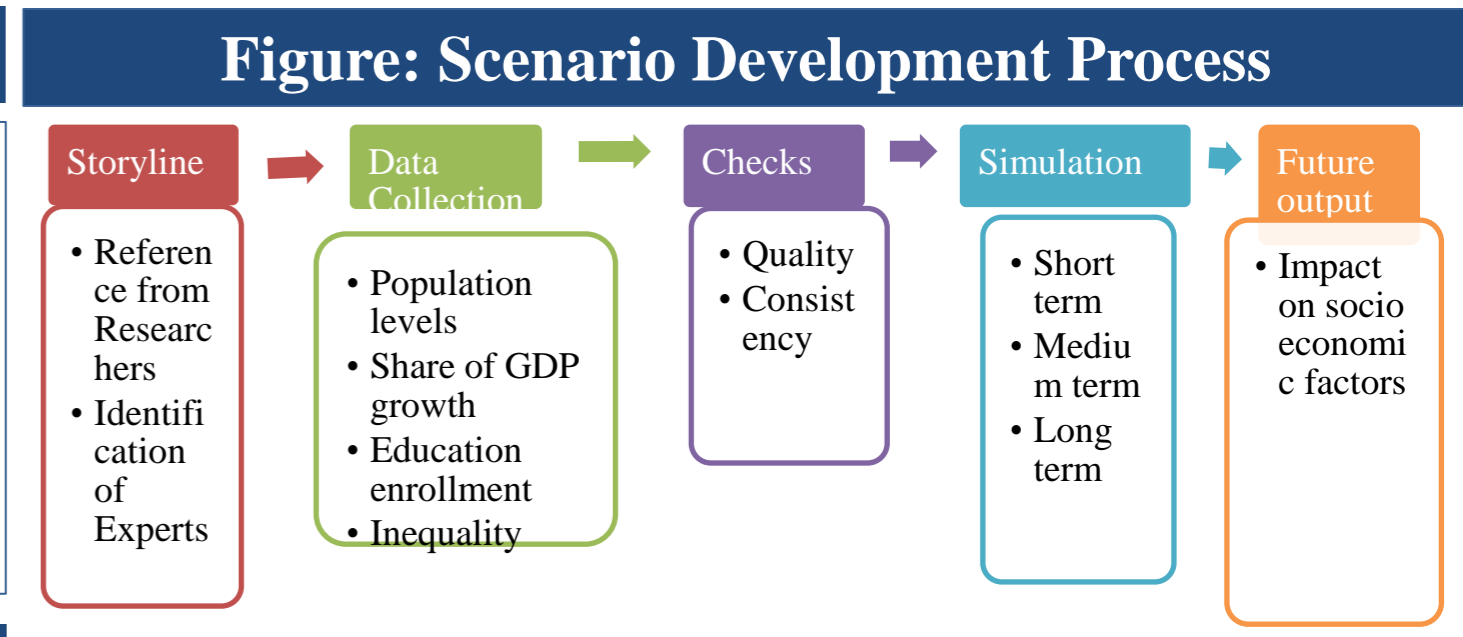


### Methodological Framework

Variables		
Delta_urban share	Delta_Industrial share in GDP	Delta_% of enrolment in Tertiary education
Country_urban share	Country_Industrial share in GDP	Country_% of enrolment in Tertiary education
Delta_population levels	Delta_Services share in GDP	Delta_levels of Female education enrolment
Country_population levels	Country_Services share in GDP	Country_levels of Female education enrolment
Delta_yearly nominal GDP growth	Delta_level of Labour wages	Delta_levels of inequality
Country_yearly nominal GDP growth	Country_level of Labour wages	Country_levels of inequality
Delta_yearly "real" (Purchasing Power Parity, from 2010) GDP growth	Delta_Capital income share (vs. the labour share)	Delta_agricultural land use quantities (1000 hectares)
Country_yearly "real" (Purchasing Power Parity, from 2010) GDP growth	Country_Capital income share (vs. the labour share)	Country_agricultural land use quantities (1000 hectares)
Delta_Agricultural share in GDP	Delta_% of enrolment in Secondary education	
Country_Agricultural share in GDP	Country_% of enrolment in Secondary education	

### Objectives of the Study

To know the impact of climate change at the regional level or local level, climate change scenarios with fine tuned spacial resolution are very much important. Socio-economic factors like real GDP, Population growth, Urbanization, Educational Improvement etc are also the major factors to alter the climate change impact and adaptation measures. Since the coastal regions are highly populated and experiencing rapid changes and environmental pressures so it is very much needed for the policy makers to know the socio-economic factors and the scenarios for the next 50 years and how these factors are affecting the impact of climate change and adaptation measures. The study has undertaken to assess the probable (according to experts views) socio-economic scenarios for the Mahanadi Delta which may affect climate change outcomes.



### Conclusion

The perception of the experts seems to follow the received wisdom on stages of economic growth pattern that India has been experiencing, viz., the growth of tertiary sector bypassing the growth of industrial sector in terms of share of GDP and the delta is not expected to follow a different pattern. Common views are general expected increases in most of the variables questioned about (noticed that some graphs are horizontal bars, but they refer to % growth, e.g. for GDP), except for the expected maintenance of agricultural land use quantities, of the Capital/labour income share, and (only in some responses, in others we find the opposite) declining levels of inequality.

### References

- O'Neill, B., Kriegler, E., Riahi, K., Ebi, K.L., Hallegatte, S., Carter, T.R., Mathur, R., van Vuuren, D.P., 2014. A new scenario framework for climate change research: the concept of shared socioeconomic pathways. *Clim. Change* 122, 387–400.
- Van Vuuren, D.P., Kriegler, E., O'Neill, B.C., Ebi, K.L., Riahi, K., Carter, T.R., Edmonds, J., Hallegatte, S., Kram, T., Mathur, R., Winkler, H., 2014. A new scenario framework for climate change research: scenario matrix architecture. *Clim. Change* 122, 373–386
- Keywan Riahi, Detlef P. van Vuuren, Elmar Kriegler, Brian O'Neill; Shared Socio-Economic Pathways (SSPs): An Overview, presented at IIASA workshop, [https://unfccc.int/files/science/workstreams/research/application/pdf/part1\\_iiasa\\_rogelj\\_ssp\\_poster.pdf](https://unfccc.int/files/science/workstreams/research/application/pdf/part1_iiasa_rogelj_ssp_poster.pdf)