

Preliminary Questions – Engineering

ENGINEERING:

- 1) How can we map infrastructure engineering, traffic patterns, and food and water delivery?
- 2) What kinds of physical systems are in place for these?
- 3) How is physical infrastructure planned and deployed at the festival?
- 4) What are the changes in air quality and air pollution during the festival?
- 5) How might data like this be visualized with the tools available to engineering and design?
- 6) Does the religious nature of the Kumbh Mela completely determine how effectively people work together to deploy infrastructure?
- 7) Are the systems set up here only capable of lasting for the duration of the Mela, or can they be more permanent?
- 8) How does the pontoon bridge system, which carries millions of people in and out of the 9) festival site in a short span of time, interact with both land and water?
- 9) How is it physically located in the river?
- 10) What are the overall environmental impacts of temporary infrastructures at the festival?
- 11) How to minimize the quantity of waste plastic bottles?
- 12) How to design for reuse then the installation, dismantling and repurposing of all of the pipes, latrines, pumps, and filters?
- 13) Who makes the initial investment in water and wastewater infra and how is the money recaptured?
- 14) How are contingencies considered financially, for example does someone provide insurance against equipment damage or extra rain or not enough rain or a cholera outbreak?