Take-home assignment: Prepare your own flood analysis scenario

"In this assignment you will need to prepare an analysis for a recent flood event"

The goal of this exercise is to give you practice in building a complete scenario yourself. You will use data you download from OSM and augment it with data you procure from your contact network, or that you capture yourself.

Here are your tasks:

- Find a flood event in the past e.g. Garut flood in 2016
- Collate the datasets needed to carry out an InaSAFE analysis:
  - **Aggregation:** Find village boundaries for the general area where the flood occurred. Using OSM admin areas or BPS census areas would be a good approach here.
  - **Exposure:** Choose whether you would like to use population, roads or buildings for the exposure dataset. Roads and Buildings can be fetched using the OSM downloader. Population data can be retrieved from your national census dataset or from worldpop.org.
  - **Hazard:** This is going to be the biggest challenge. Either use historical reports to digitise a flood layer (be sure to include an attribute indicating if each polygon is wet or dry) or create a copy of the aggregation area, add a column to the attribute table and indicate if each village is flooded or not.
- Run the InaSAFE analysis: Perform the appropriate analysis for your data (e.g. flood on roads, flood on buildings or flood on population).
- Print the results and save copies of the landscape map report and the impact summary table report.

Submit your results:

- Send a copy of your completed work to your instructor.
- Your assignment should be completed by _____ (one month after the training completes).

Notes:

- Use the InaSAFE chat room on gitter to ask questions if you need help. https://gitter.im/inasafe/inasafe
- Ask your fellow course attendees for help if needed.
- If you encounter issues that prevent you completing the analysis, file a ticket on the InaSAFE issue tracker here: https://github.com/inasafe/inasafe/issues