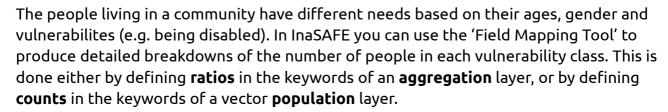


Creating detailed demographic breakdowns in InaSAFE

"Using attributes stored in the aggregation layer, we can create detailed age, gender and vulnerability based breakdowns."





You try:

Goal: To be able to define demographic ratios on an aggregation layer.

Using the **wards** layer in the sample dataset, update the keywords to set the ratios as listed in the requirements table.

Some of the values are left blank in the table – use your intuition* to assign reasonable numbers.

Now run the flood on population analysis again using the wards layer for aggregation.

*Remember that in a real-world scenario you should not do this! Rather consult your national statistics agency for real data!

Requirement	Value
Age: Infant ratio	
Age: Child ratio	
Age: Youth ratio	
Age: Adult ratio	
Age: Elderly ratio	
Gender: Male	
Gender: Female	
Age vulnerability: Under 5 years	
Age vulnerability: Over 60 years	
Gender vulnerability: Child bearing age	
Gender vulnerability: Pregnant ratio	
Gender vulnerability: Lactating ratio	
Disability vulnerability: Disability ratio	

Check your results:

Review the report generated and look for the demographic breakdowns per ward. Why might some values be zero?

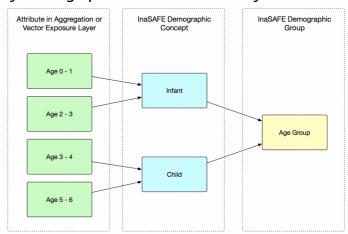
More about demographic breakdowns

Demographic breakdowns are useful to produce a more descriminated report. For example if you have a very large hazard affecting millions of people, it might be hard to know how to plan for such an event in terms of providing minimum needs, logistics etc. By breaking the numbers down into different population segments, more specific contingency planning can be done – for example by planning to cater for pregnant women who might be affected.

We want to caution you again against simply making up the numbers used in your

demographic breakdowns. InaSAFE provides some defaults but even these we recommend that you evaluate critically to see whether they are suitable for your community.

The field mapping system provided by the field mapping tool also allows you to dynamically combine one or more attribute columns in your dataset containing ratio data into a single ratio value, as illustrated in the diagram here.



InaSAFE uses a system to decide whether to use global defaults, specific values, data contained in the aggregation layer attribute table or to not use a given ratio.

Please see the field mapping tool section in the manual for more information on how this works.



Check your knowledge:

- 1. InaSAFE can provide detailed breakdowns of using ratios:
- a) true
- b) false
- 2. Mark all the correct statements:
- a) InaSAFE provides default demographic ratios suitable for all countries.
- b) InaSAFE provides a way to combine multiple layer attributes into a single ratio.
- c) The ratio data can only come from global defaults or a user specified value.



Further reading:

See this video on YouTube walking through the value mapping tool: https://youtu.be/-d6R67hrmSc See the field mapping tool section in the InaSAFE technical documentation at: http://manual.inasafe.org/en/index.html#field-mapping-tool