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EMRAS II

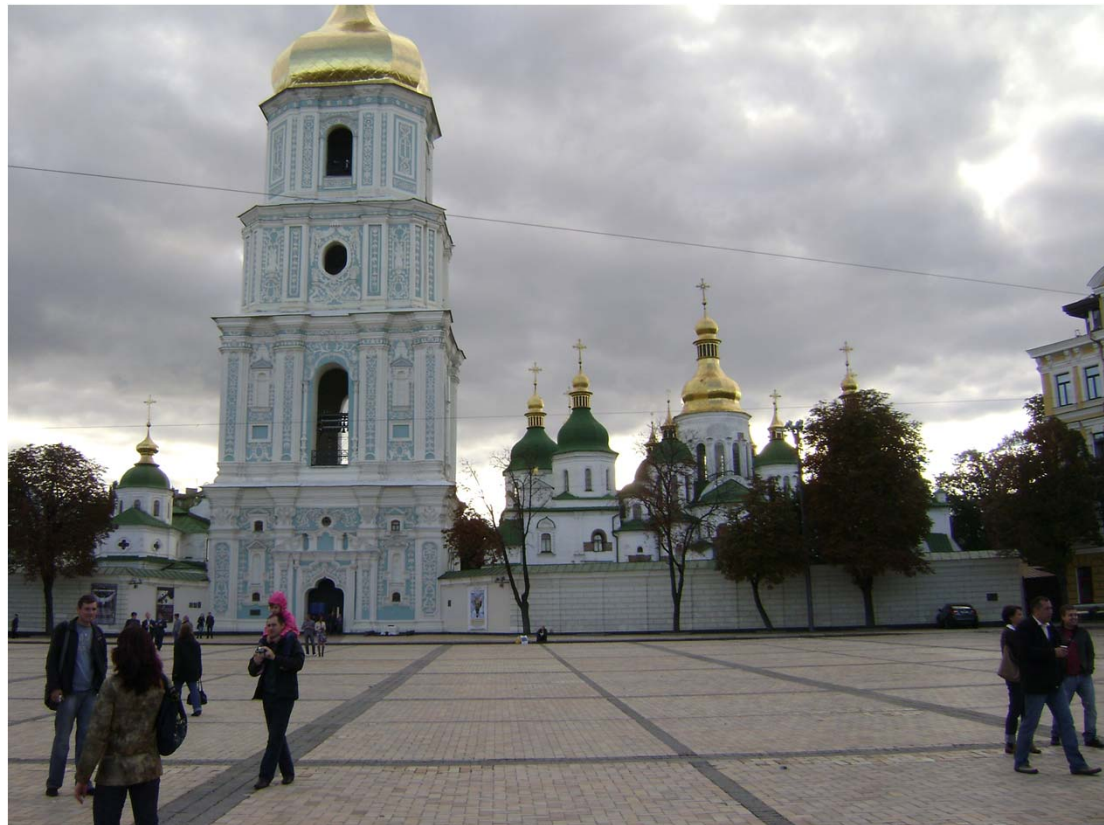
Working Group 1

**Update for Jan 2011
plenary meeting
Vienna**

Prepared by T.J. Stocki

Outline

- We met in Kiev in September
- Describe Scenario A
- Show some results from Scenario A
- What is next?



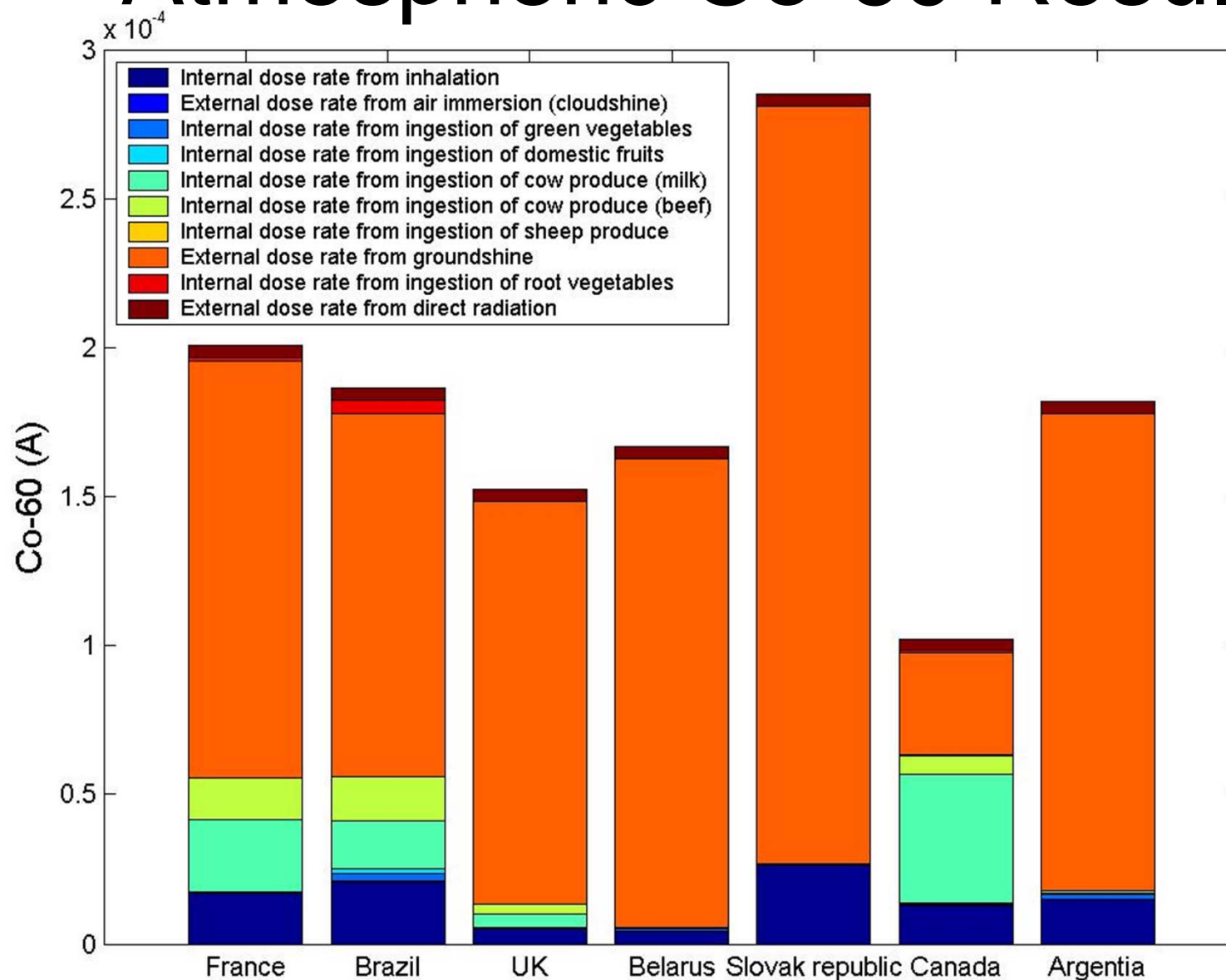
Scenario A v2

- Based on data from Sizewell, UK
 - Includes information about the site, as well as habits information for near by residents
- Additional parameters selected from a variety of sources
 - Parameter values chosen from IAEA technical documents, ICRP documents, CSA documents, or recommended by the participants in a previous Working Group 1 meeting
- By providing an extensive list of parameters, each participant should be modelling the identical scenario. This allows us to directly compare the models through the results.

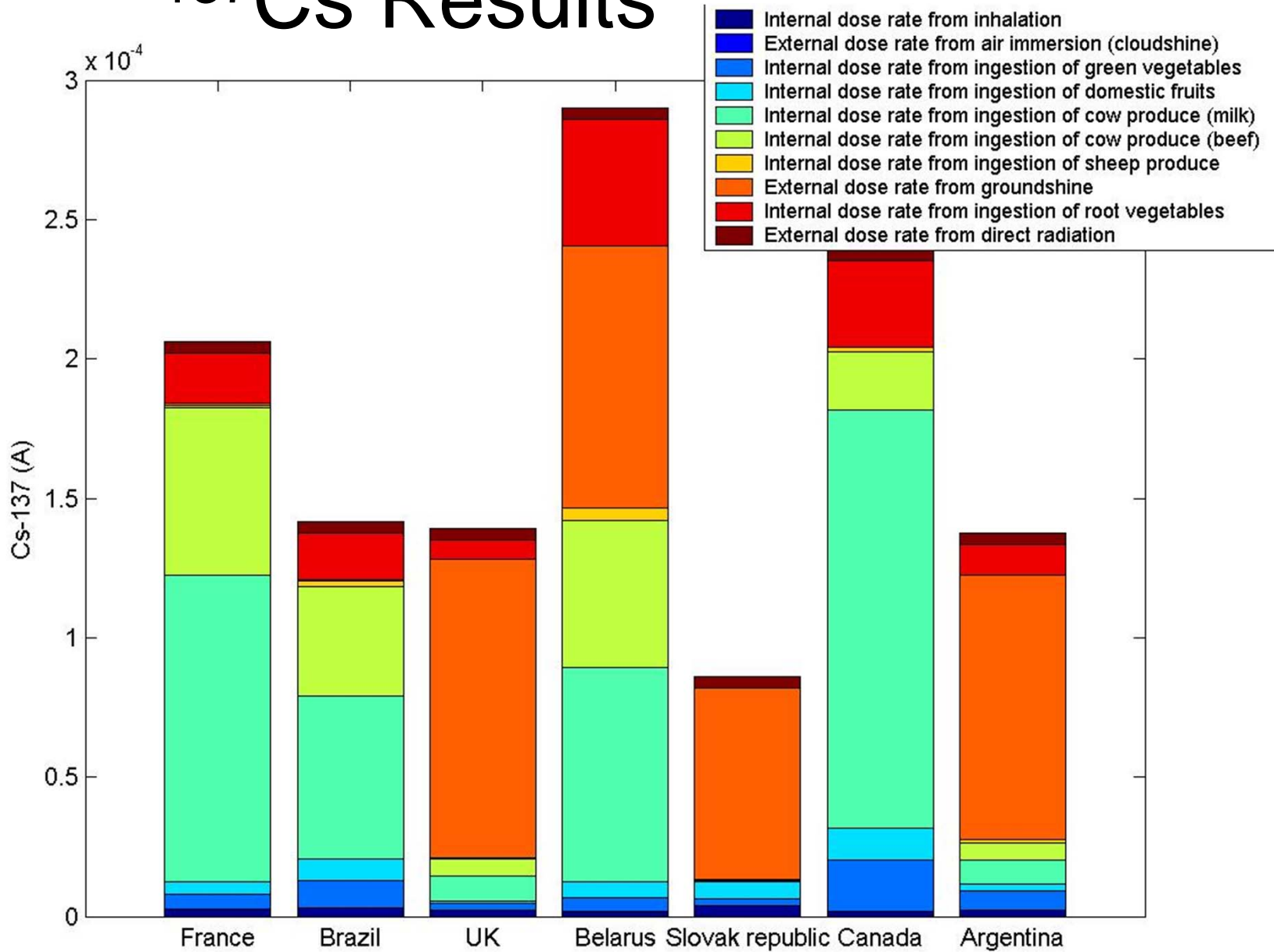
The Scenario

- Includes an atmospheric release of Co-60, Cs-137, I-131, and Kr-85 at a rate of 1 TBq/a
- Includes a marine release of Co-60, Cs-137, and Sr-90 at a rate of 1 TBq/a
- Includes a cattle/sheep farm at a distance of 1 km from the source
- Includes a fishing location at 300 m distance from the source
- Includes a population living at 300 m distance from the source who ingest local beef, sheep, milk, fish, crustaceans, and molluscs

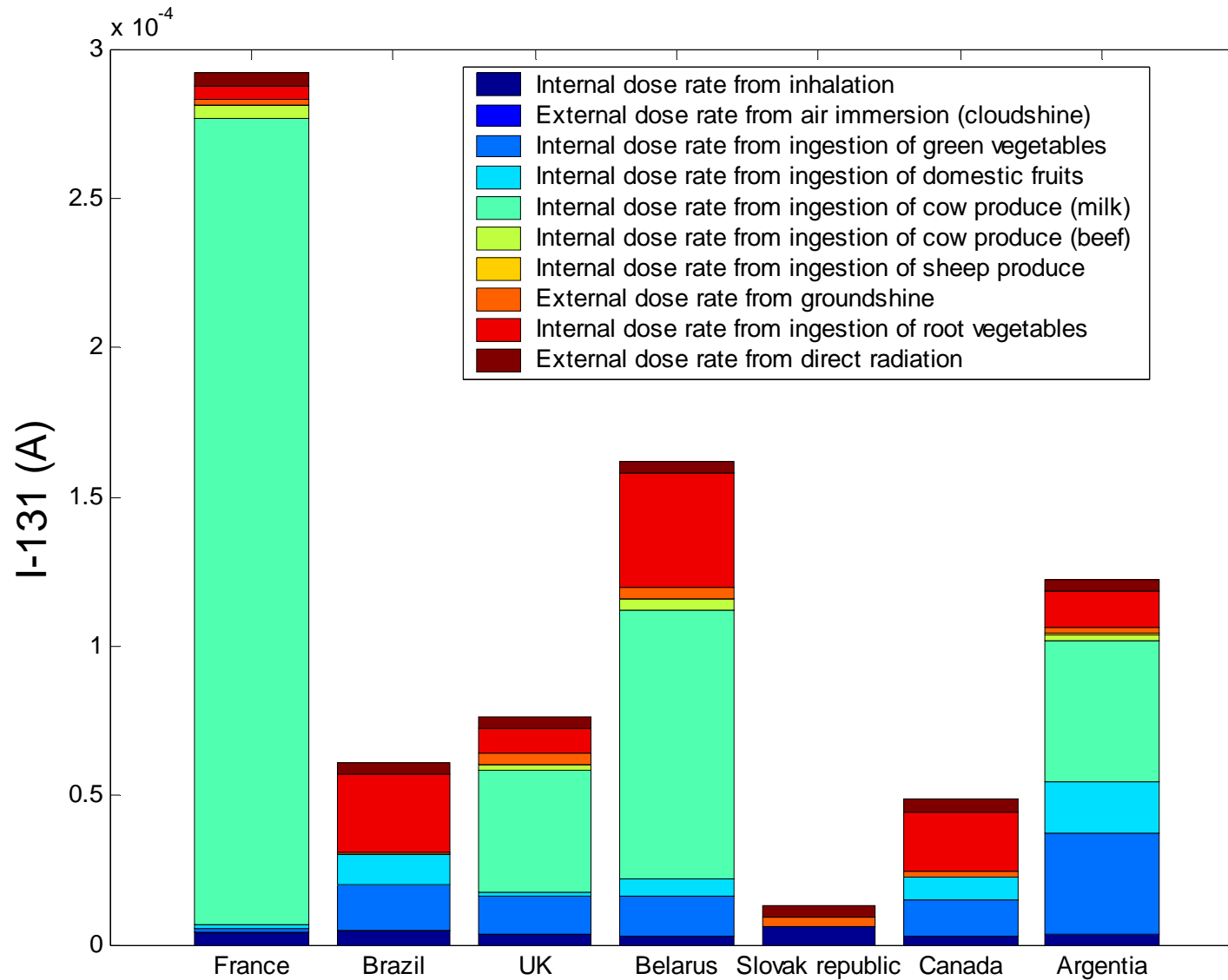
Atmospheric Co-60 Results



^{137}Cs Results



Iodine Results



What is next?

- More variability in Iodine (needs further analysis (will be discussed)).
- Marine had more variability, we fixed more parameters. (will discuss this week).
- We have started Scenario C (the river model).
- We have started setting up our outline for the final report.