AutoMated tool for Antimicrobial resistance Surveillance System (AMASS)

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Investigators

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Objective:

- To assist hospitals to independently perform data analysis and generate isolate-based and sample-based surveillance reports stratified by infection origin form routinely collected electronic databases.
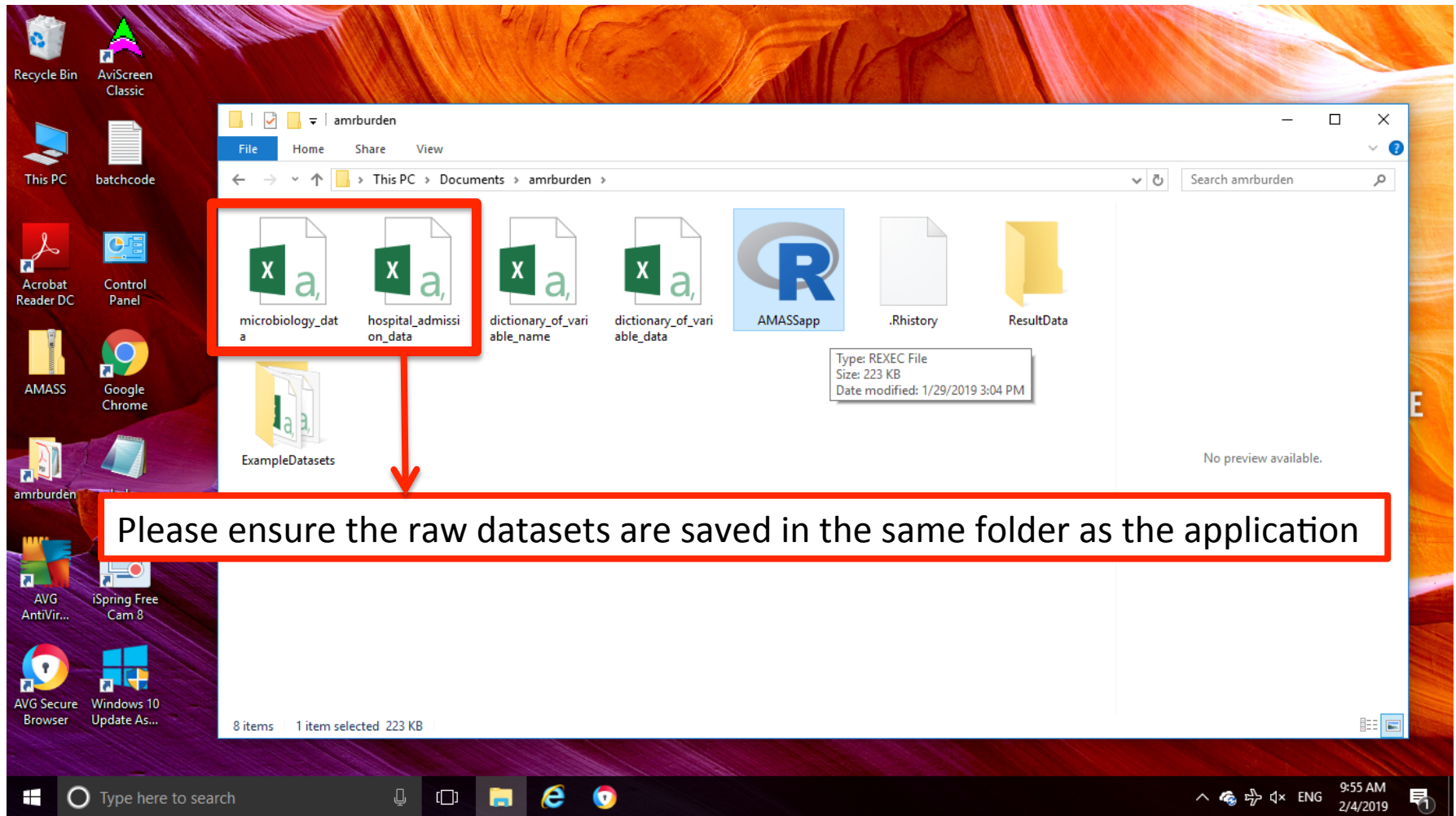
How to use the application:

1. Ensure raw microbiology and hospital admission datasets are stored in the same folder as the application (AMASSapp.exe)
2. Double-click the "AMASSapp" icon
3. Check the output (AMR surveillance report, de-identified & cleaned datasets, and error log file)

Key features of AMASS:

- Perform data cleaning, merging, and analysis automatically & systematically
- Does not require internet to run (can run offline; i.e. low risk of cyber threat)
- User-friendly and allow users to share summary report and data easily
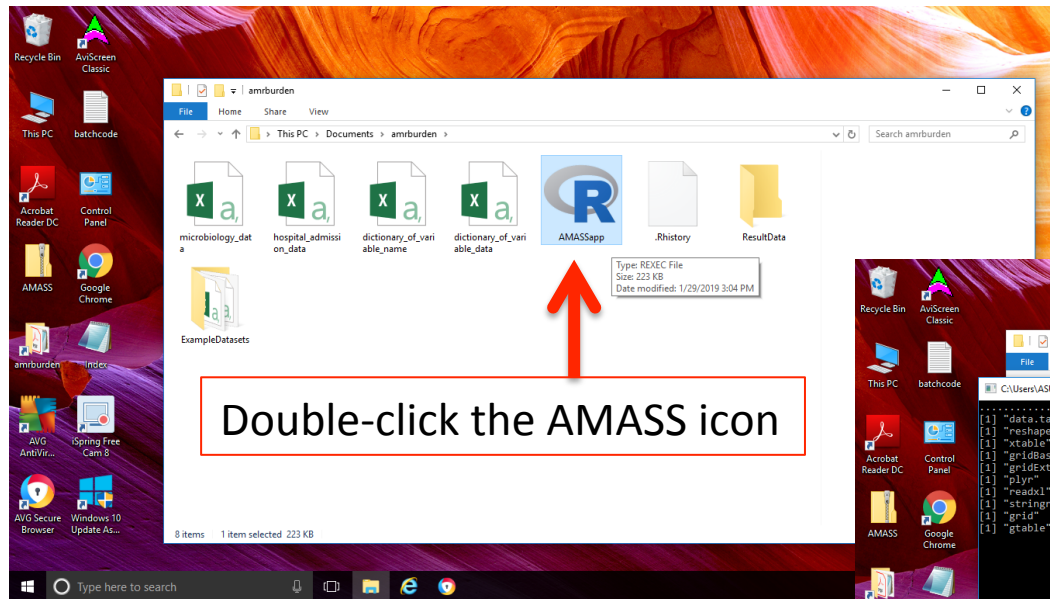
Step 1 – Save raw datasets in the folder

- Save the raw datasets in the same folder as the application

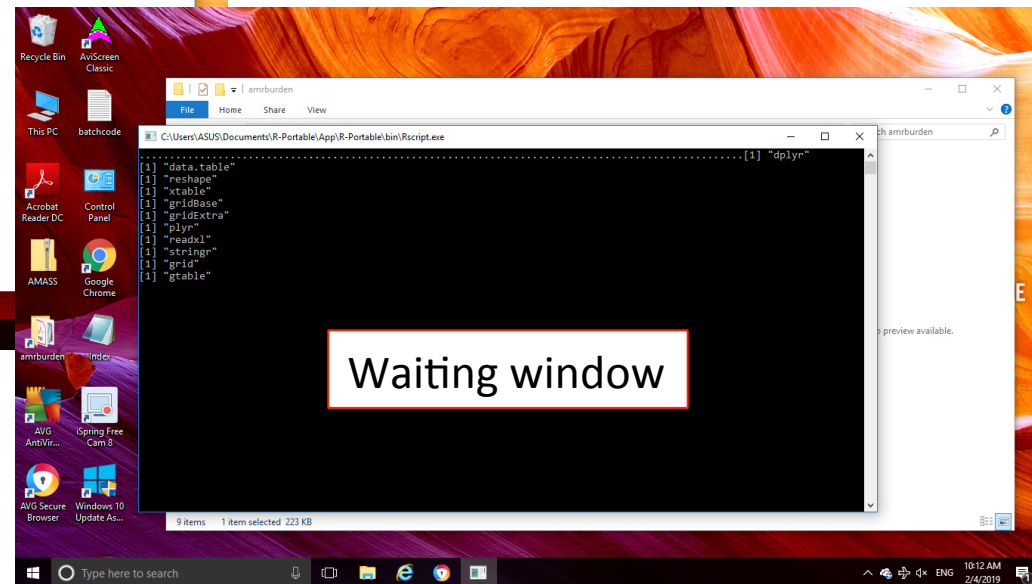Please ensure the raw datasets are saved in the same folder as the application

Step 2 – Double-click on the AMASS icon

- **Double-click** on the AMASS icon **and wait** for the application to run
- All cleaning, merging and data analysis will be performed automatically
- AMR surveillance report and cleaned & de-identified datasets will be produced automatically at the end of each run
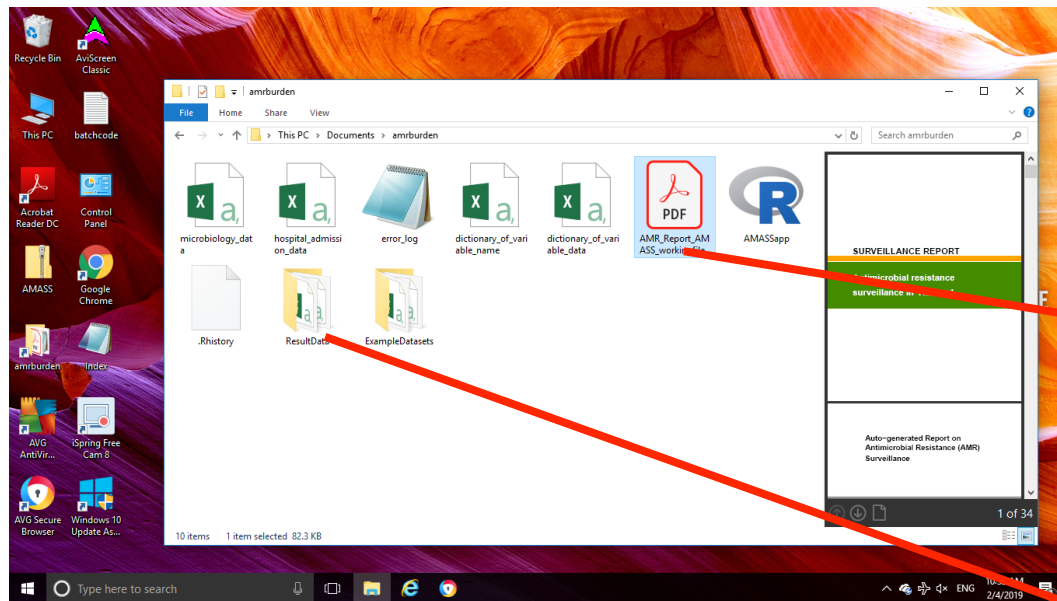

Double-click the AMASS icon

After double-click, please wait for the AMASS to run
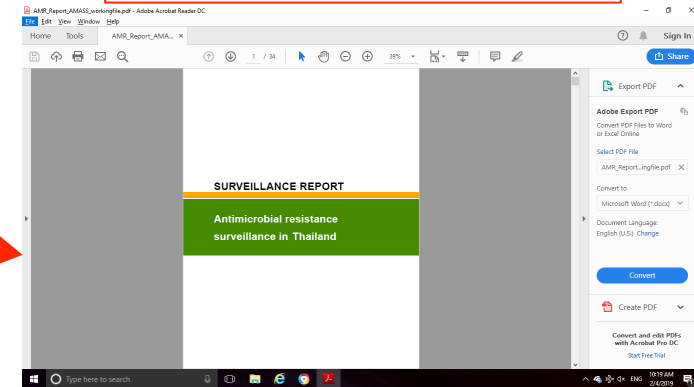
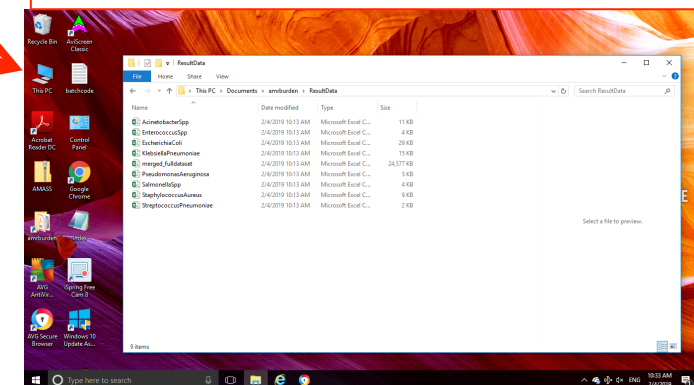Waiting window

Step 3 – Using AMASS application

- Check the outputs:
    - AMR surveillance report (pdf file)
    - Cleaned & de-identified datasets (xls files; stratified by gender and age groups)
    - "error log" for any error in each run of the application

AMR surveillance report and
cleaned datasets (stratified by gender and 10 age groups)
will be produced automatically after each run

AMR surveillance report

Cleaned & de-identified dataset