





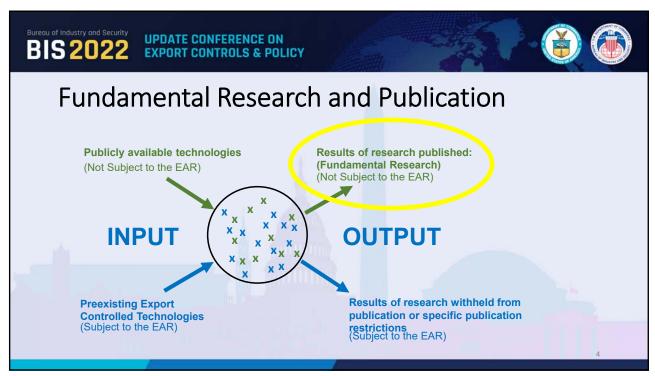




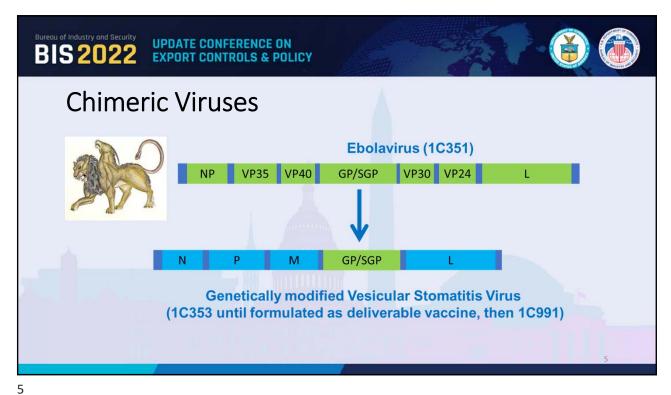
Case Study: Biopharma Company A

- Global R&D network
- Numerous lines of fundamental research (published or intended to be published)
- Academic, government, and private collaborations
- Development facilities conducting proprietary research
- Production facilities manufacturing API and finished drugs

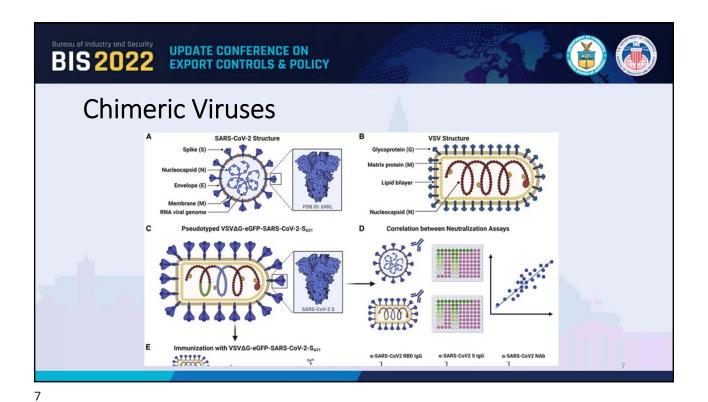
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BIS 2022 **UPDATE CONFERENCE ON EXPORT CONTROLS & POLICY** Fundamental Research and Publication Publicly available technologies Results of research published: (Fundamental Research) (Not Subject to the EAR) (Not Subject to the EAR) **OUTPUT INPUT Preexisting Export Controlled** Results of research withheld from publication or specific publication **Technologies** restrictions (Subject to the EAR) (Subject to the EAR)





Export Licenses

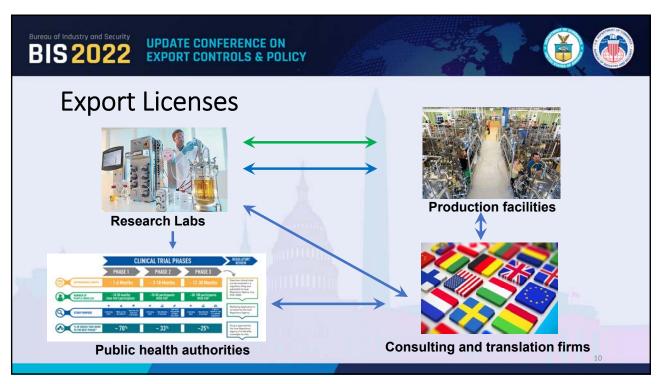
Materials

- SARS-CoV-2 (EAR99)
- SARS-CoV (1C351.a.47)
- Vesicular stomatitis virus (1C351.a.56)
- Plasmids with VSV elements (1C353.a.1)
- Plasmids with SARS-CoV-2 elements (EAR99)
- Chimeric VSV/SARS-CoV-2 virus (1C353.a.1)
- Finished vaccine (1C991.a)

Technologies (production)

- Genetically engineering chimeras (NSEAR)
- Plasmids with VSV elements (1E001)
- Plasmids with SARS-CoV-2 elements (EAR99)
- Chimeric VSV/SARS-CoV-2 virus (1E001)
- Finished vaccine (EAR99)

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Export Licenses - Summary

- Over 400 parties
- 75 countries
- Authorized technology exchanges among and between all parties
- Authorized material transfers among and between all the Company A subsidiaries and facilities
- Applied early in the process
- Considered diverse possibilities
- Communicated frequently with BIS

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