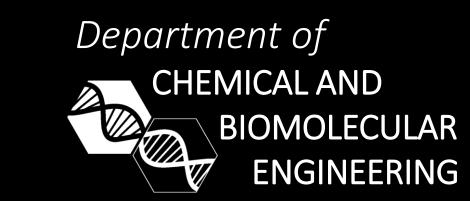
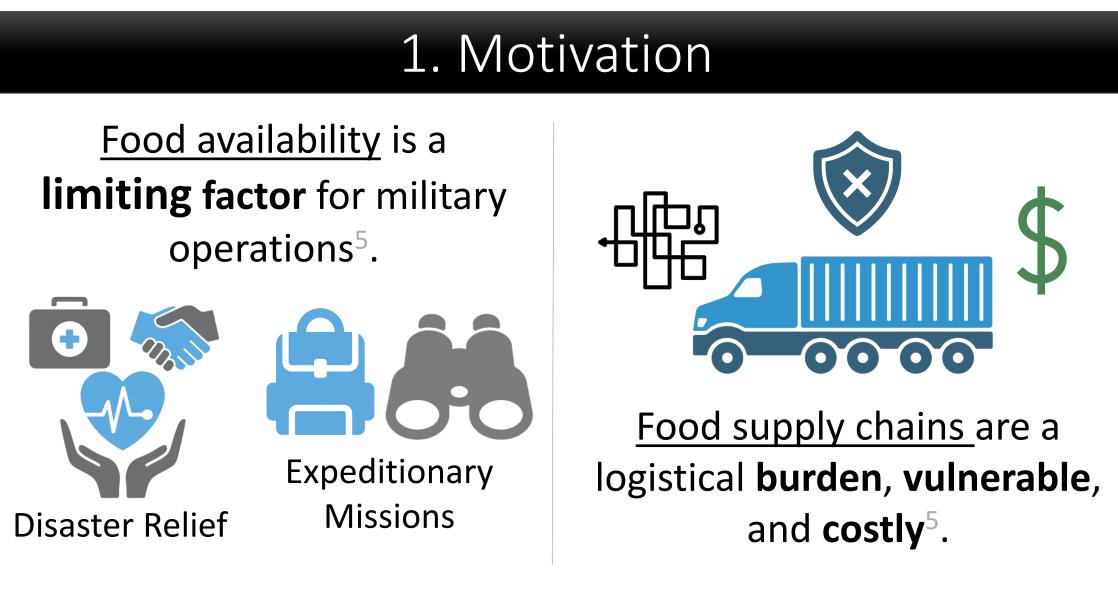
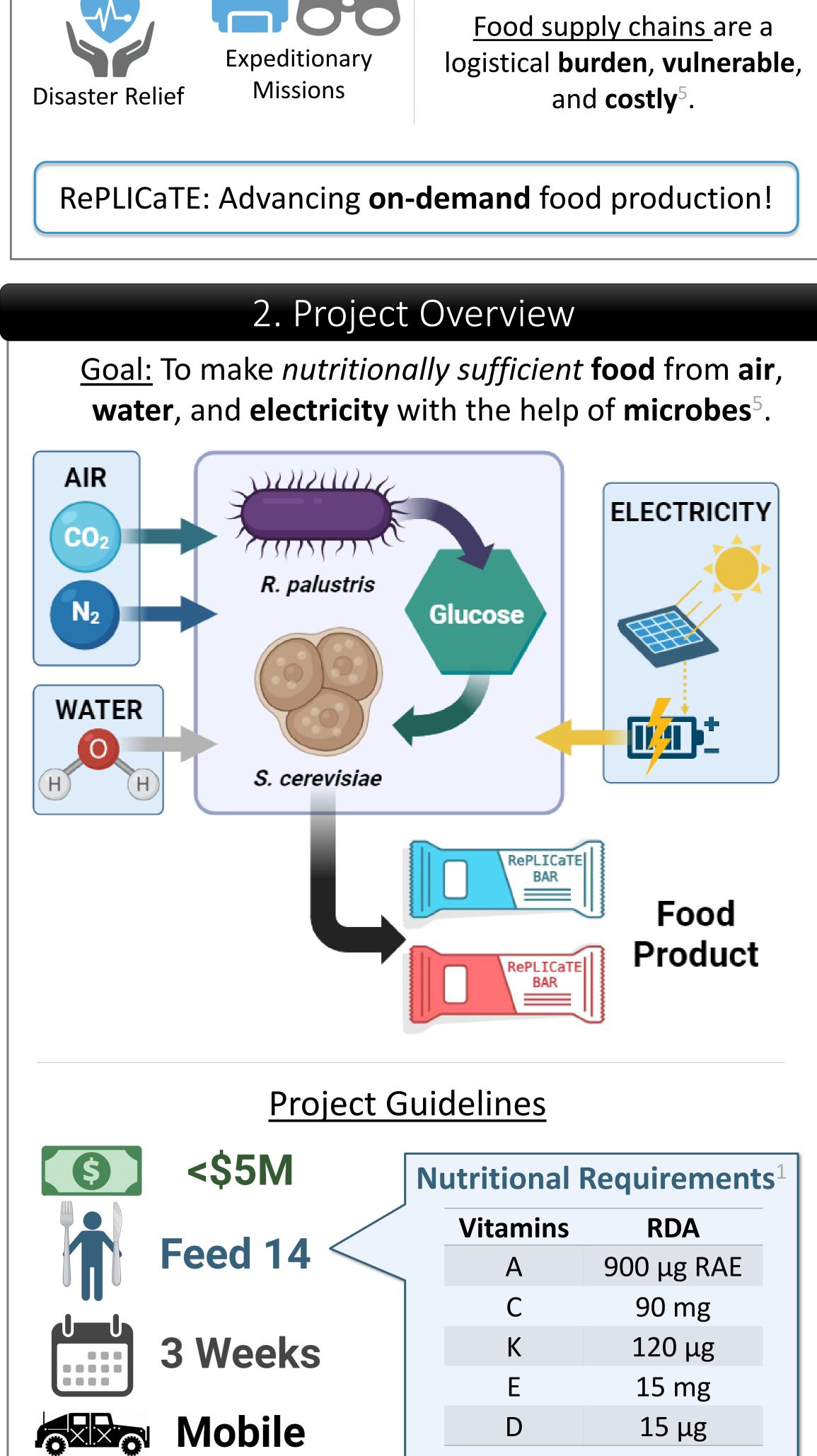


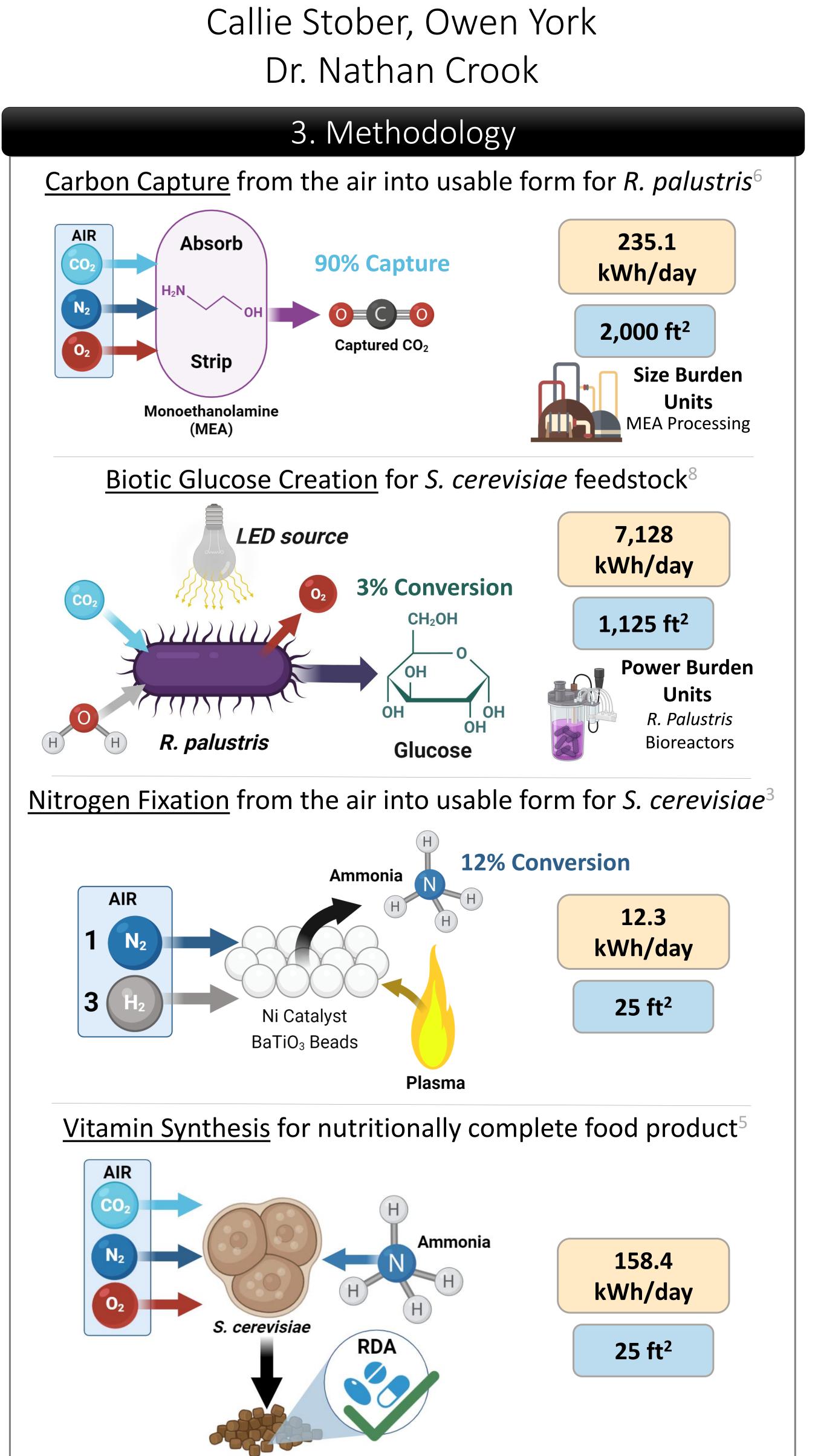
Project RePLICaTE: Reducing Provisions and Logistics Inputs through Calorie Transformation from Electricity

Emma Johnson, Sydney McGraw, Morgan Stephens

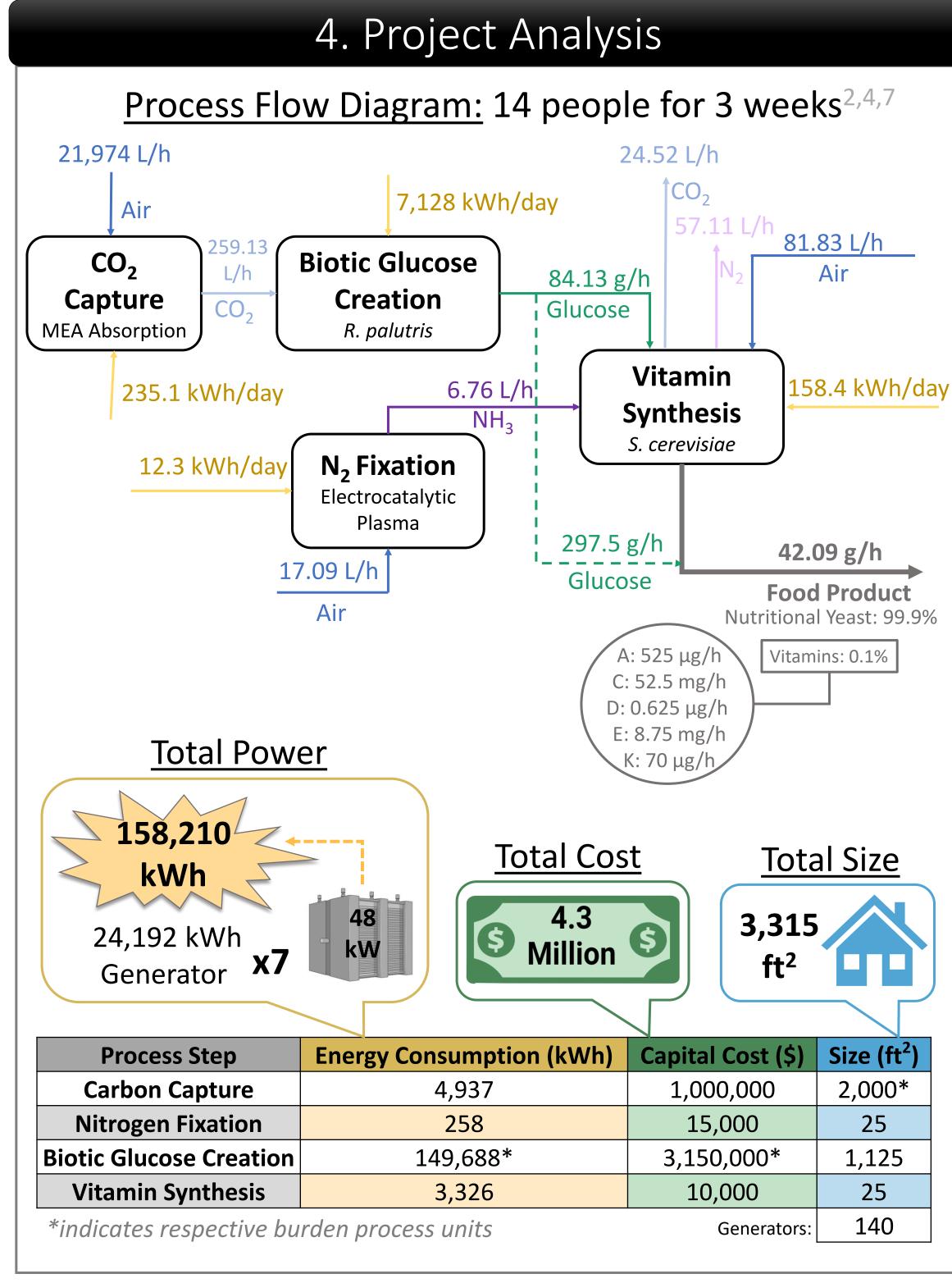








Food Pellets



5. Conclusions & Recommendations

- ✓ RePLICaTE can feed 14 people for 3 weeks under \$5 million.
- x RePLICaTE <u>cannot</u> meet **size** and **power** for **mobility** applications.

With Current Technology:

- 1. Set up **stationary** plant for a humanitarian food scarcity operation. *For Future Direction:*
- 2. Conduct more **research** for SWaP optimizing technologies.
 →Notably, MEA carbon capture **alternative** for size reduction.
- 3. Implement portable solar panels for generator quantity reduction.

6. Acknowledgements

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