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Figure 1. The Vertical Farm model from above as seen in the Museum of Science and Industry, Chicago. Figure 2. The Vertical Farm Park at base of model Figure 3. A vertical Farm in Dubai. Design by Eric Ellingsen and Dickson Despommier. Image by Eric Ellingsen, Homero Rios, and Mo Phala.

Dickson Donald Despommier Dickson Donald Despommier holds a Ph. D in Biology from University of Notre Dame (1967), a Masters in Science in Medical Parasitology from Columbia University (1964). He is a Professor of Public Health and Microbiology at Columbia University, NYC, 1982-present.

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10/2/2017 · By the year 2050, nearly 80% of the earth's population will live in urban centers and that number will have increased by about 3 billion people in the interim – a big challenge and opportunity to feed. One emergent model is indoor farming, aka, vertical farming. Columbia professor Dickson D. Despommier, Ph.D., (now emeritus) at Columbia University Medical School authored “The Vertical ...

Vertical farms' key purpose is to lower the overall resources used and also to reduce agriculture's carbon footprint. This farming is defined as “a type of indoor farming that seeks to maximize production and efficiency per square foot by growing crops in multiple levels on a vertical axis”. Fig. 1 Vertical farming skyscraper model and ...

31/3/2016 · As Despommier explains, following estimations that it will require 28 square metres of ‘intensely’ farmed indoor space to feed a single individual in an extra terrestrial environment, if working on these calculations, “one vertical farm with an architectural footprint of one square block and rising up to 30 stories (approximately 3 million square feet [278,709 square metres] ), could ...

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