

5 Reasons the Future of AGRICULTURE IS INDOORS



What is indoor agriculture?

Indoor agriculture is growing produce and nutraceuticals in controlled environments - greenhouses, warehouses and containers - using nutrient rich water or mist instead of soil. The industry is large: half of tomatoes bought in North American groceries are from greenhouses»



Greenhouse



Warehouse

Indoor Agriculture Controlled Environment



Container



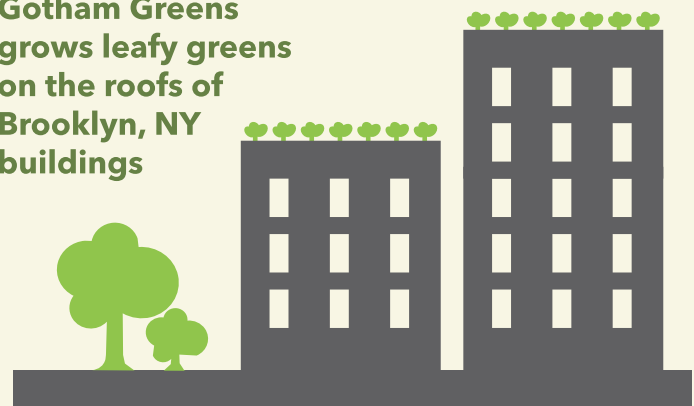
*Source: Village Farms, figure is by hothouse tomatoes into retail channels by value

1 YOU CAN PUT A FARM (ALMOST) ANYWHERE

The National Science Foundation has its own hydroponic farm at its station at the South Pole



Gotham Greens grows leafy greens on the roofs of Brooklyn, NY buildings



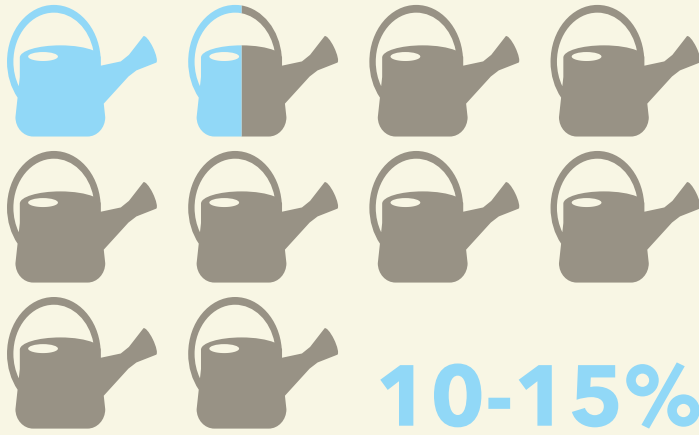
Zero Carbon Food grows veggies in London Underground tunnels



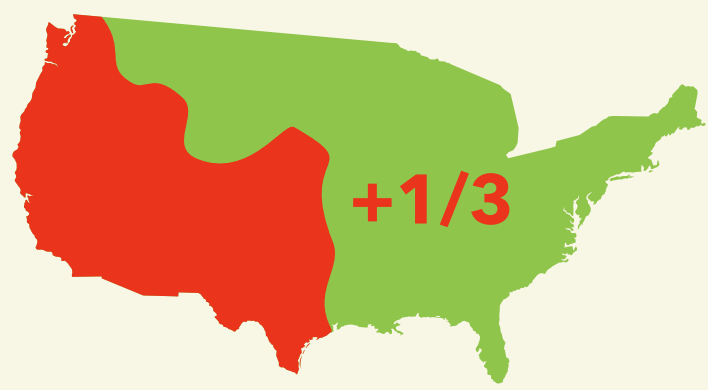
Farms close to the consumer = fewer food miles & fresher veggies!



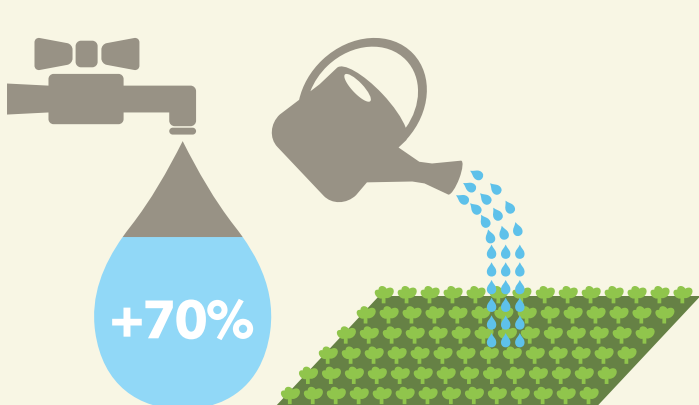
2 IT USES ONLY 10-15% OF THE WATER OF TRADITIONAL FARMS



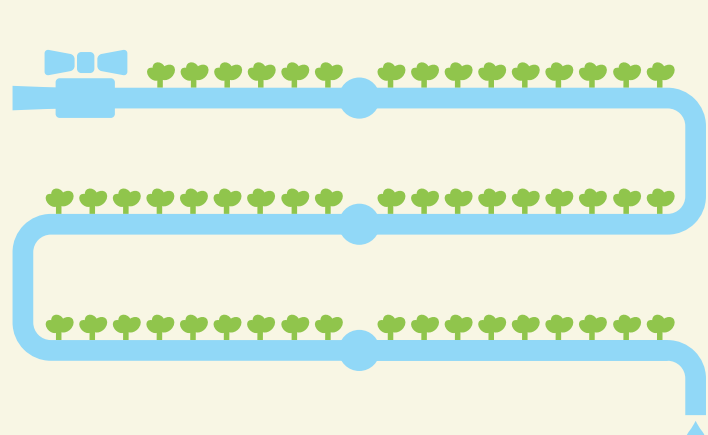
More than 1/3 of the US is in drought



+70% of water is used for agriculture *



Hydroponics helps farmers conserve water



*Sources: US Drought Monitor, FAO Aquastat

3 YOU GET FRESH VEGGIES EVERY DAY

In hydroponics systems, you harvest fresh veggies every day, not just 2 or 3 times a year.



HydroGreens picks basil at 5am at its Pahrump, NV farm; the same produce is on the table at Las Vegas casino restaurants at lunchtime.

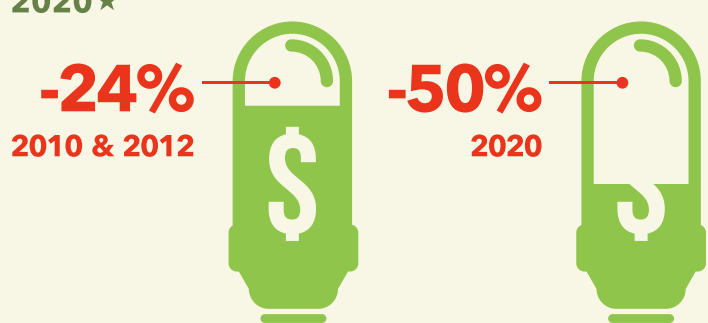


4 IT'S GETTING CHEAPER TO SET UP AN INDOOR FARM

Multiple new growing systems have been commercialized over the past few years, offering better value than earlier iterations



LED light bulb prices fell by 24% between 2010 & 2012, and are forecast to halve by 2020 *



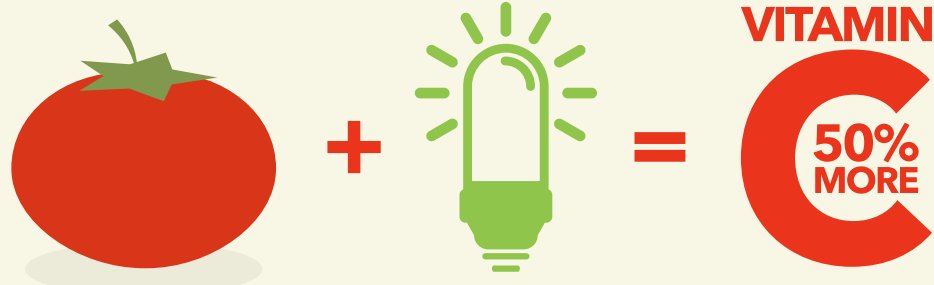
*Source: Enterprise LED Market Research for historic figures, Lux Research for forecasts

5 IT MIGHT BE BETTER FOR YOU!

Indoor farms are often able to use fewer pesticides and herbicides than outdoor ones as their farms are partially shielded from the elements



A 2013 study at Dutch University Wageningen UR found that tomatoes blasted with LED lights - commonly used in vertical indoor farms - have 50% more Vitamin C



Want to find out more?

Join us at the
2nd ANNUAL INDOOR AGRICULTURE CONFERENCE
 Springs Preserve, Las Vegas, NV
 May 14-15, 2014

More info at indoor.ag

