Vertical Farming

A Grow-cery concept by Jarrett Mork
A VERTICAL FARM IS MORE THAN JUST A GREENHOUSE...

A VERTICAL FARM IS THE SOLUTION TO A PROBLEM THAT HAS NOT YET ARRIVED. THE EARTH’S POPULATION IS RAPIDLY EXPANDING AND THEY ARE MOVING ONTO THE LAND FROM WHICH THEIR FOOD USED TO GROW. HERE IS MY SOLUTION TO THIS IMPENDING CRISIS.
GOALS

I. TO PROVIDE A NEW WAY OF THINKING FOR THE AGRICULTURAL WORLD.

II. TO SUPPLY ENOUGH ENERGY TO POWER THE GROWING FACILITIES PASSIVELY.

III. TO PROVIDE PORTLAND WITH A FEASIBLE EXAMPLE OF SUSTAINABLE LIVING.

IV. TO ENCOURAGE LESS VEHICULAR USE.
HYDROPONICS

10% OF WATER REQUIRED FOR TRADITIONAL FARMING WATER REQUIRED

BETTER DISTRIBUTION OF NUTRIENTS.

NO CHEMICALS OR PRESERVATIVES

GROWN ON-SITE YEAR-ROUND

LOW MAINTENANCE
LED LIGHTING

FULL SPECTRUM OF LIGHT
UV // INFRARED

LOW ENERGY

LOW MAINTENANCE

MULTI-VERSATILE
LOCATION
PORTLAND, OREGON, USA

SITE
701 SW BROADWAY AVE
62,500 SQ. FT. BASE
PIONEER COURTHOUSE DISTRICT
+2,300 SUNLIGHT HRS/YEAR

AMENITIES
PIONEER COURTHOUSE SQUARE
TOURIST INFO, WEEKLY FARMERS MARKET,
PUBLIC SPACE
PUBLIC TRANSIT SURROUNDS SITE
CLOSE TO WATER SOURCE
HIGH DENSITY RESIDENTIAL

NUMEROUS SURROUNDING RESTAURANTS
WHERE CAN WE LEARN FROM?

BURJ AL ARAB, DUBAI, UAE

PLANTAGON, CONCEPT
THANK YOU.