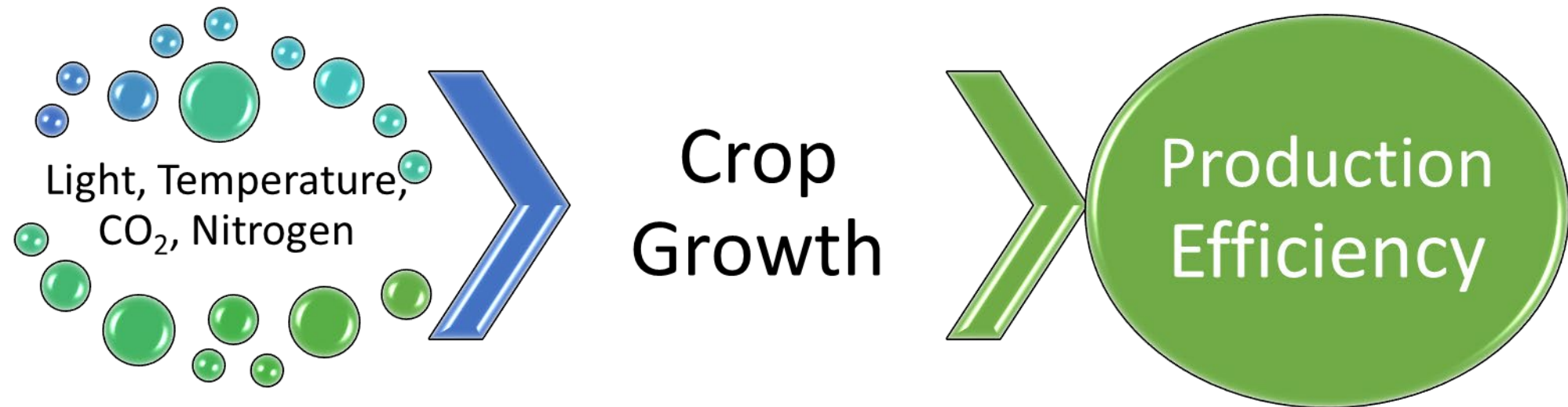


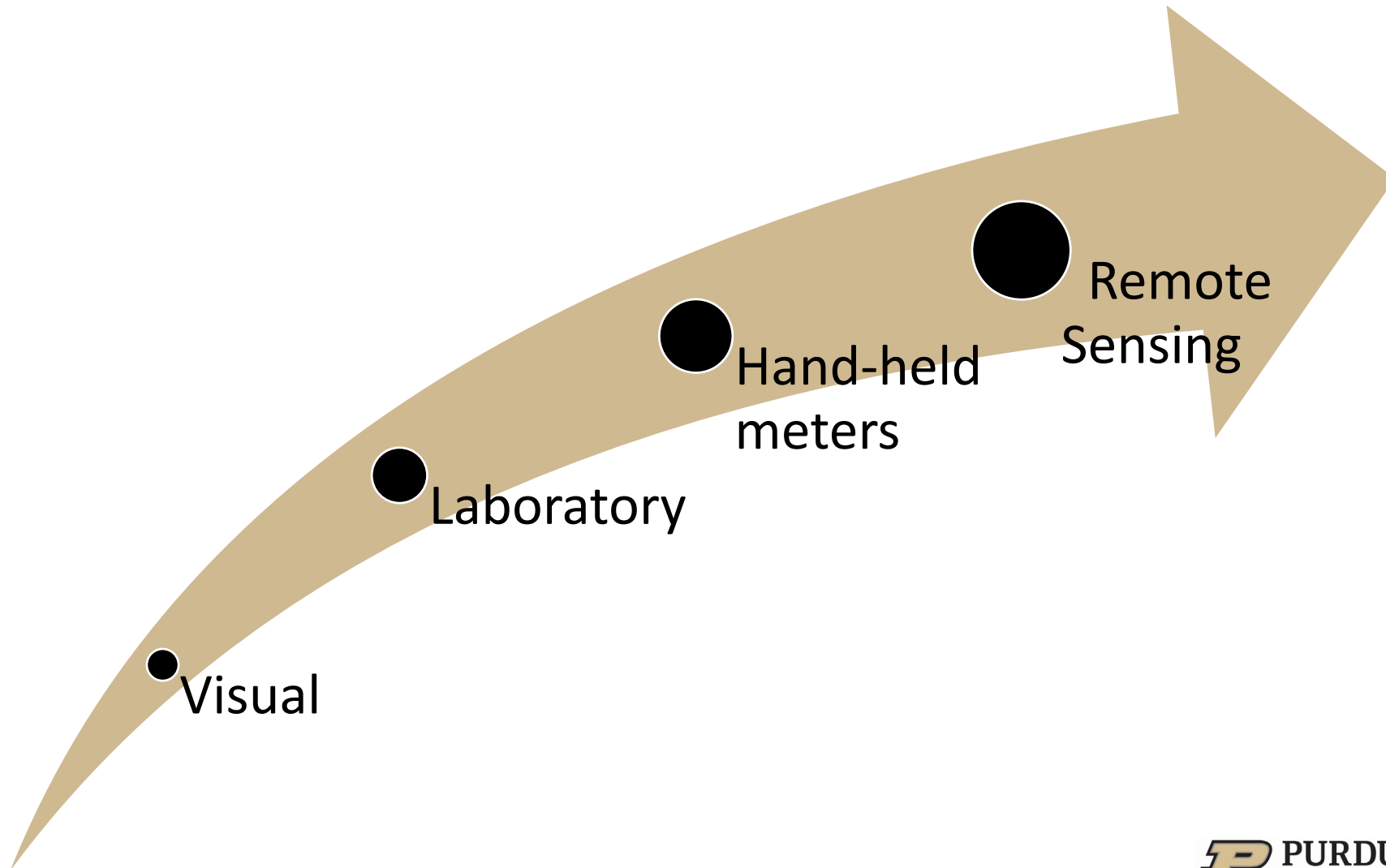
Why monitor plants?



Intense cultivation practices make monitoring difficult

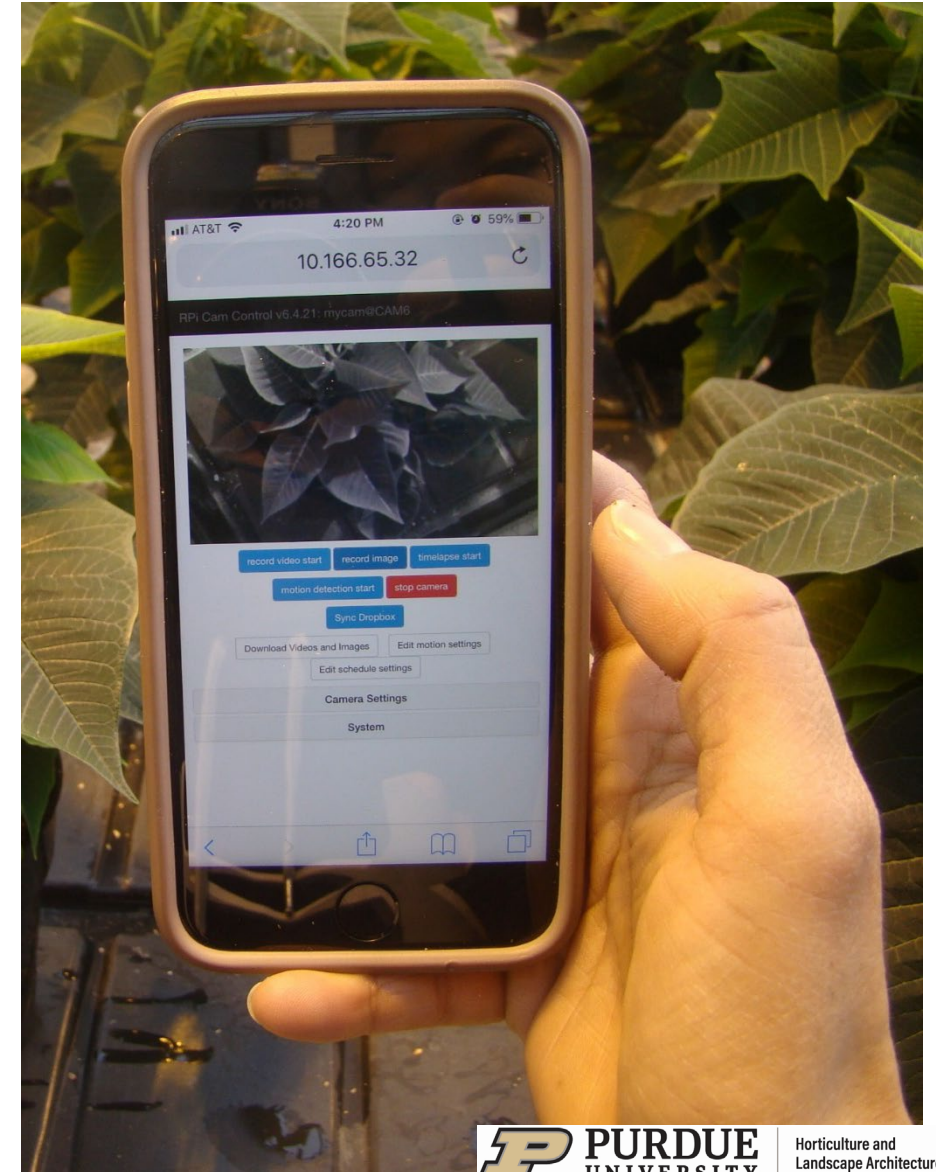


Evolution of monitoring techniques



Smart Sensing

- Sensing based on images captured by a phone
- Low cost
- Easy to use
- Universally available
- Easily adoptable and attractive



What can be measured using smartphones?

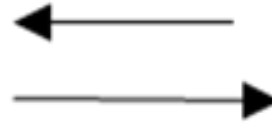
- Plant Size : Area, Height, Weight (indirectly)
- Counts: Leaf Number, Flower Number, Seedling Number
- Color: Intensity, Progression, Shelf-life
- Damage: Nutrient Deficiencies, Insect Damage
- Biochemistry: Chlorophyll, Nitrogen
- Stress Index



Technology made available through licensing



Smartphone
captures
images



Web Server



Plants

Images are processed on
the server and data
returned to smartphone