

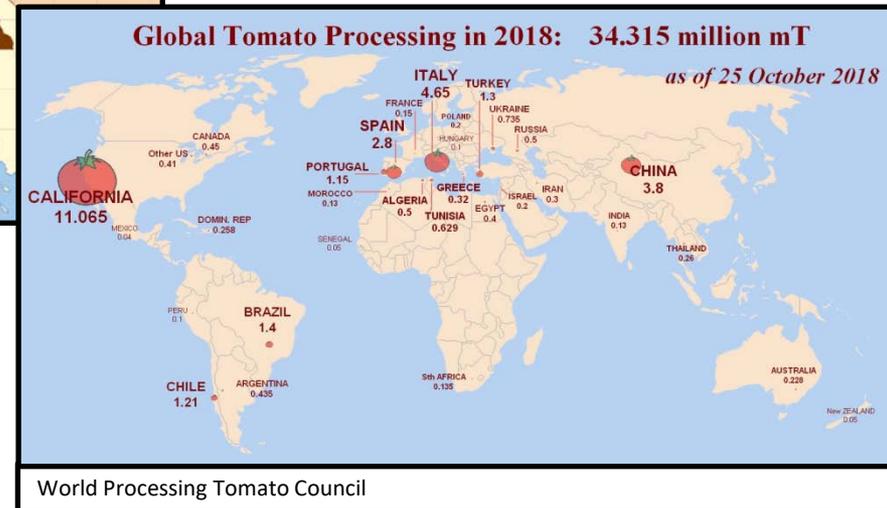
Processing Tomato Conference
at UC Davis
2018

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California Tomato Research Institute



Historical Perspectives: CA Processing Tomato Industry...

- CA accounts for ~32% of global production.
- 264,000 acres (5 year average)
- 48.9 tons/acre (5 year average)
- > \$800 million in annual farm gate value (5 year average)



Historical Perspectives: CA Processing Tomato Industry...

How did we get here?

- Both public and private breeding efforts – constant varietal improvement
- Targeted and efficient uses of mineral fertilizers and crop protection products
- Transition from direct seeding to transplants
- SSDI

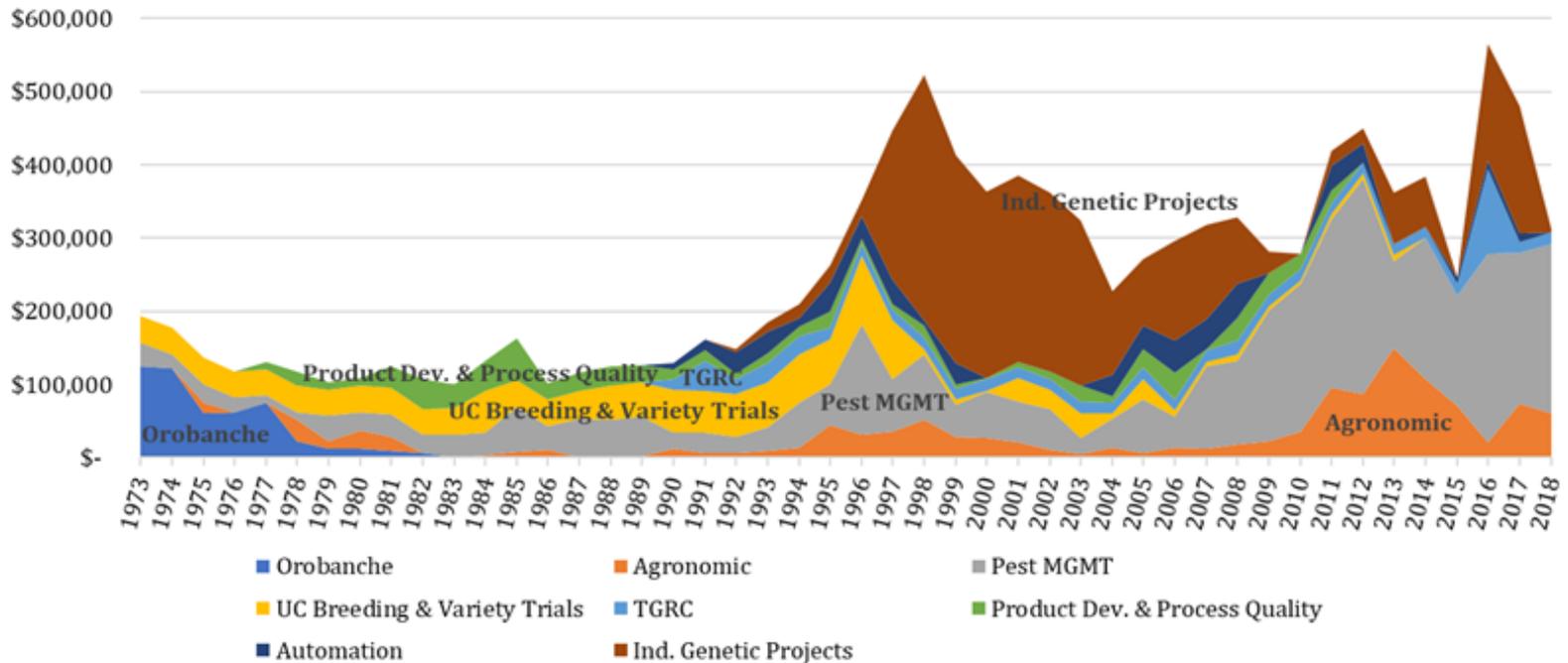


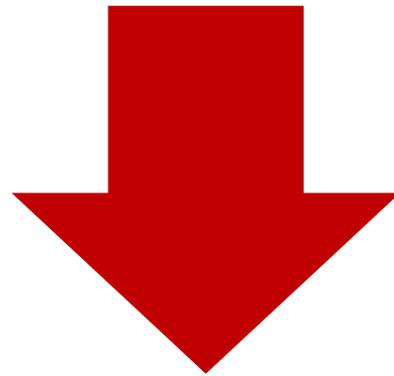


“As the **industries research sponsor** it is the job of the CTRI to **build durable coalitions** around the **questions** whose **answers** will drive the **long term success** of the California processing tomato industry.”



Historical Perspectives: CTRI - Research Expenditure...1973-2018

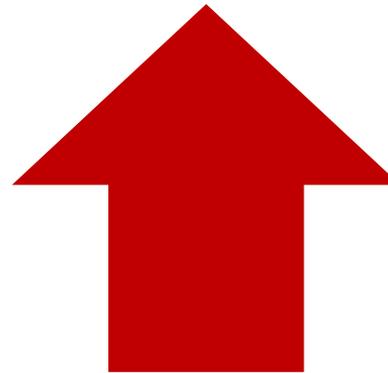




Incrementalism



Disruption



Extrapolated Trends and Future Research Considerations

1. Will past teamwork on major challenges translate into future collaboration?
 - Potential of invasive pest or disease: BMSB, broomrape, Tuta absoluta, etc.
 - Regulatory concerns: water, labor, crop protection products, etc.
2. What will be the next disruption?
 - Genetics of wild tomato, soil microbiome, automation, differentiation...?
3. No silver bullet – we must stay ahead of the resistance curve
4. Robots will come for our weeds, what about our data?
 - Big promises have been made around machine learning and big data – obvious potential but the matrix of variables in the field is quite large



Branched broomrape:

