MTP2

Roots kitchen & canner y

Employer/Cofounder:

· Patrick Burr

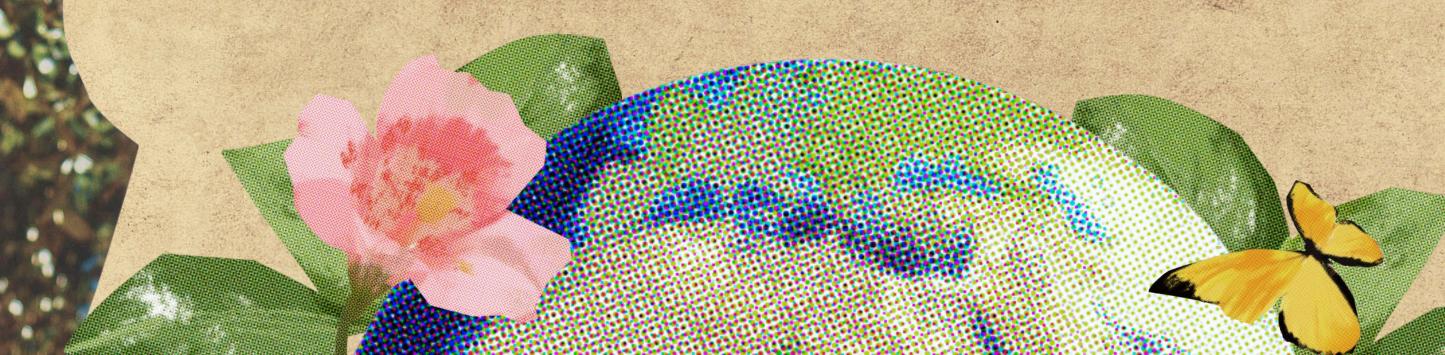
REOTS KITCHEN & CANNERY

Intern:

• Karen Nunez Michel Industrial Management Systems Engineering

Advisors:

- Jennifer Grossenbacher Director, Montana Pollution Prevention Program (MTP2)
- · Alistair Stewart Senior Business Advisor, montana Manufacturing Extension Center









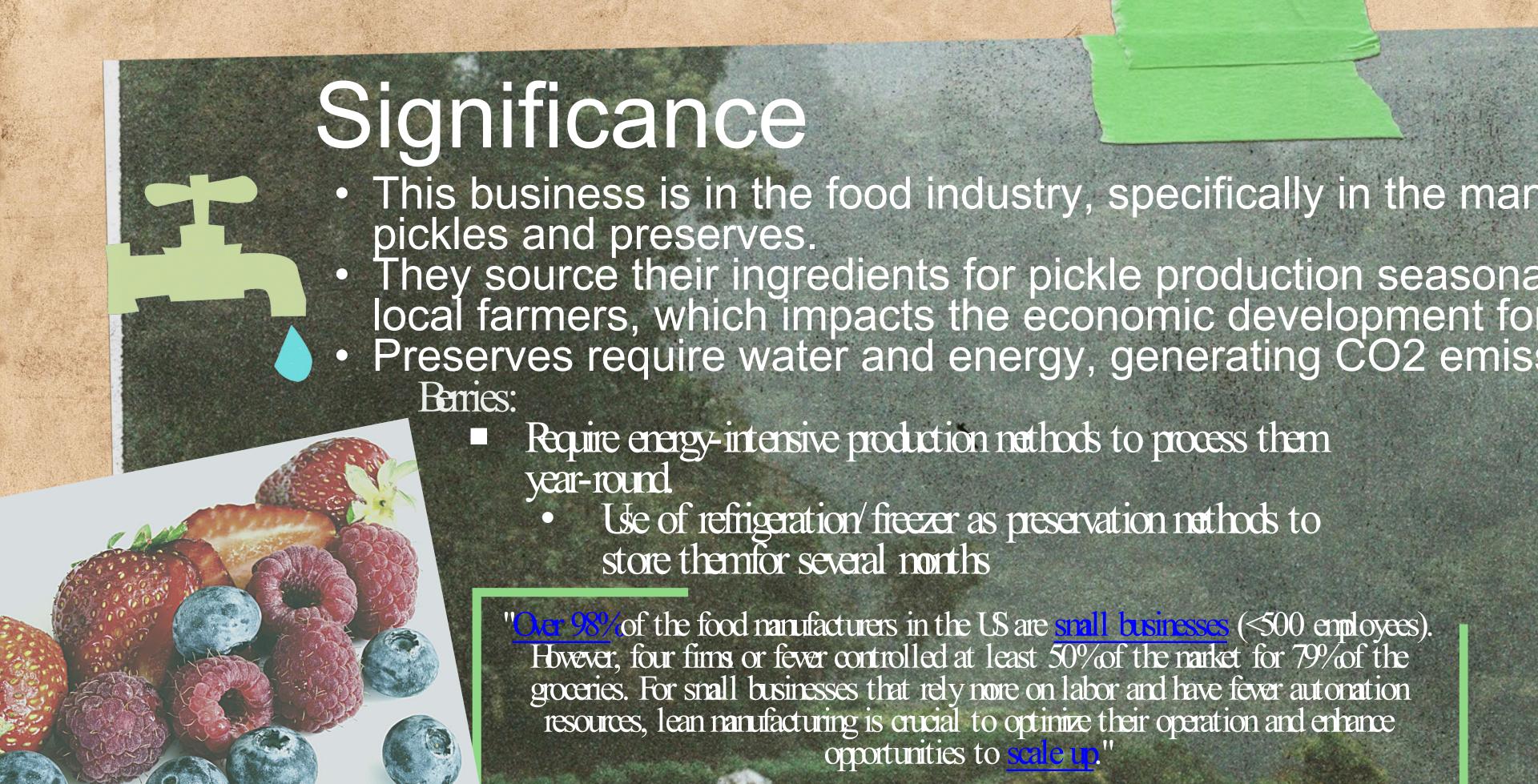


Industrial Management systems engineering











Company intro

Roots Kitchen & Cannery was founded It originally evolved out of a simple boot market in Jackson Hole, Wyoming. Four then teamed up with Patrick Burr, & eve member, Willi Brooks, joined the compa

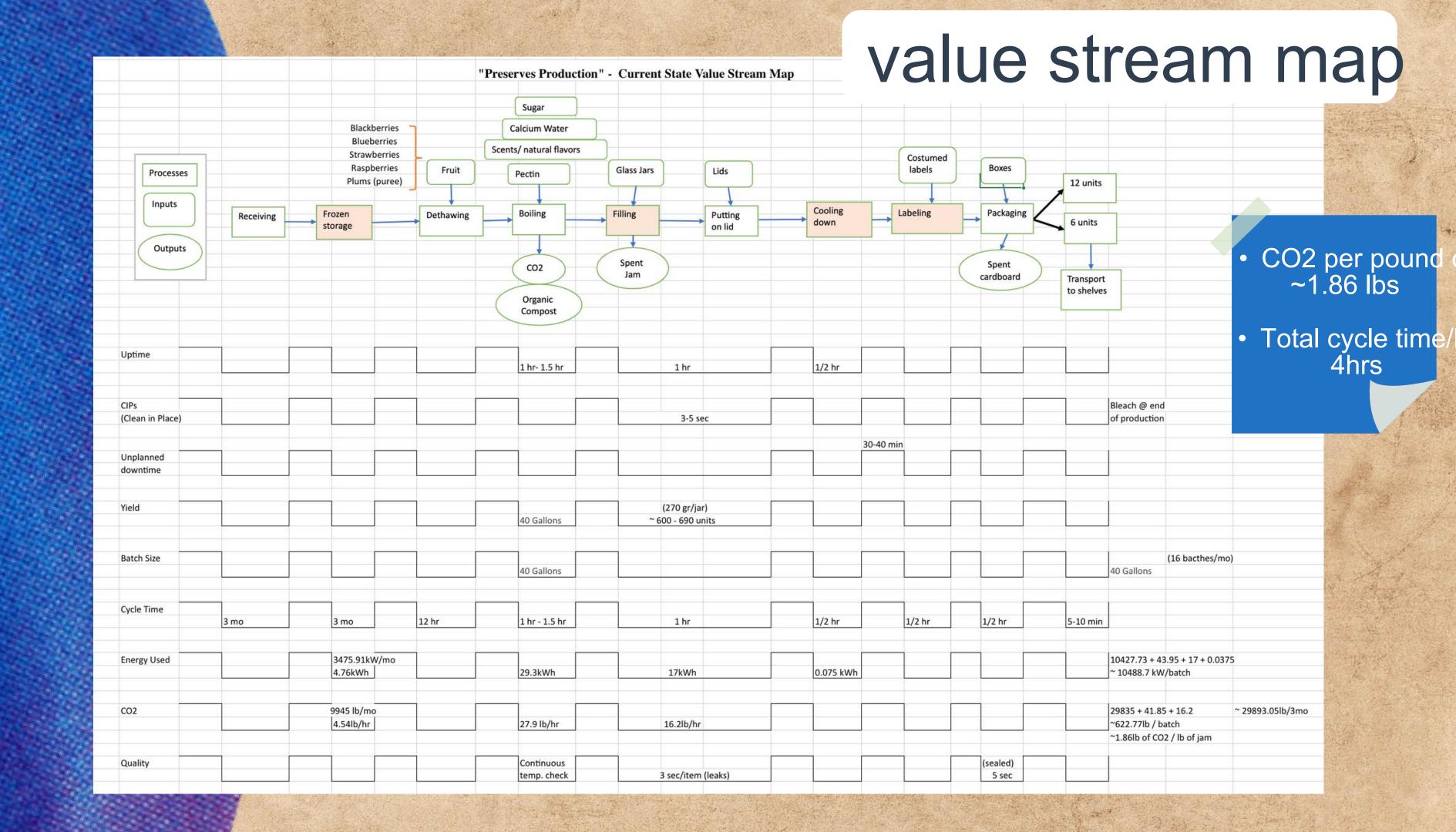
Expressed interest/challenges in P2:

- To examine ways to improve their in
 To transition to other recipes using least
- the presenvelsing processes.
 To switch to automation in the current operations.





Current product manufactured at a facility in Belgrade, MT. MArket: wholesale & retail





Identified P2 areas of focus

Lean practices

- Automatization in the cooling & labeling process.
- Improve the flow of product.

Management Inventory Systems

- Establish a stable system with the use of technological control risks, cash and time.
- Reducing costs and environmental impact
 - Conduct a preliminary trial to evaluate the advantages production & warehouse layout improving the use of specific
 - Obtain data on cycle times with new production

5S Practices

Work instructions

ROOTS KITCHEN & CANNERY

MATERIALS

WHOLESALE FULFILLMENT

This task involves some motor control and self-checking quality control.

Cases of product (A) Boxes (B) Recycled carboard (C) Packing paper (D) Tape (E)

ROOTS KITCHEN & CANNERY

SOURCING TRHOUGH INVENTORY

This task involves the use of a manual forklift and precise motor control.



PROCEDURE



• Bring into the storage room the utility cart with the batch load of product.



- Make sure that the pallet and the forks are
- Using the lift control, the foot pump, set the forks to the desired level aligning them to



· Move forward the utility cart making sure that the forks are inserted into the pallet.

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proposed solutions









P2 outcomes

Recommended	Annal reductions	Anual savings	Barrier to inplement	Plans to Inplement within 5 years?
Autonatization for the filling and labeling processes	50% reduction in CO2 by doubling the amount of batches during production throughout the week.	TBD	Equipment consultation in process.	Y
5S and Lean practices inplementation	Reduction of unplanned downtine.	TED	Future workforce training	Y
TPM	Reduction of unplanned downtine caused by equipment failure.	TBD	Equipment consultation in process.	Y



Personal learning Lean practices and 5S are esser manufacturing throughout all stages of the pro-organized workspace helps to fulfill the require labor intensive way, administrating times and intensive way.

productivity.

Recommendations for future Obserterand take notes on every detail that goes on every step of Asiall types questions, that's where the learning while identifying P2 opportunity areas.

Recommendations for Paradwisers 2 activities instructions: Having a tour of the business/faci beginning of training will help the interns to stawhile learning about P2 practices.

Acknowledgments

Landicknowledgindentar State University located pon the home land in digenque optese optes the prouder itage, a vibran present inda brightfuture Weacknowledge Assiniboliackfeethippewæ@rowgros/entrkootenai, Little Shell, Norther@heyenifændd'OreilleP, lainsCree, Salisk Gioux Hidats Mandarrikarandheothe indigenous nations this region the past, present and future We recognize at this rich humatapestrys centrato our institutionalissicalle arningiscove and the past, dengagement Funding nvironmental ections and the past, and the past, present and the past, present and the past, present and the past, present and present









