

# **FAB Lab in Methacton**



Education Committee Meeting  
May 2023



**STEM learning through digital fabrication & making**



Collaboration  
(all FAB labs have a common footprint)

Cutting edge  
research  
Videoconferencing

Electronics

Format  
machining  
Computing

3D scanning & Printing

CNC milling machines  
(Circuit boards/parts/molds)

Laser cutter

Vinyl cutter

Precision  
machining

Making what you  
can consume

# What Is A FAB Lab?

*Educate, Innovate and Invent*

# FAB Lab at Methacton

- Focus Group - Summer 2022
- Stakeholder meetings - Fall 2022

**Mission:** The Methacton FAB Lab makerspace supports a culture of authentic learning by engaging emergent technologies with curriculum content and career ready skills. At the FAB Lab makerspace, students, teachers, and community members develop agency and technological confidence while cultivating maker dispositions as lifelong learners.

# FAB Lab MHS Roadmap



curriculum/course proposal/program planning/space planning



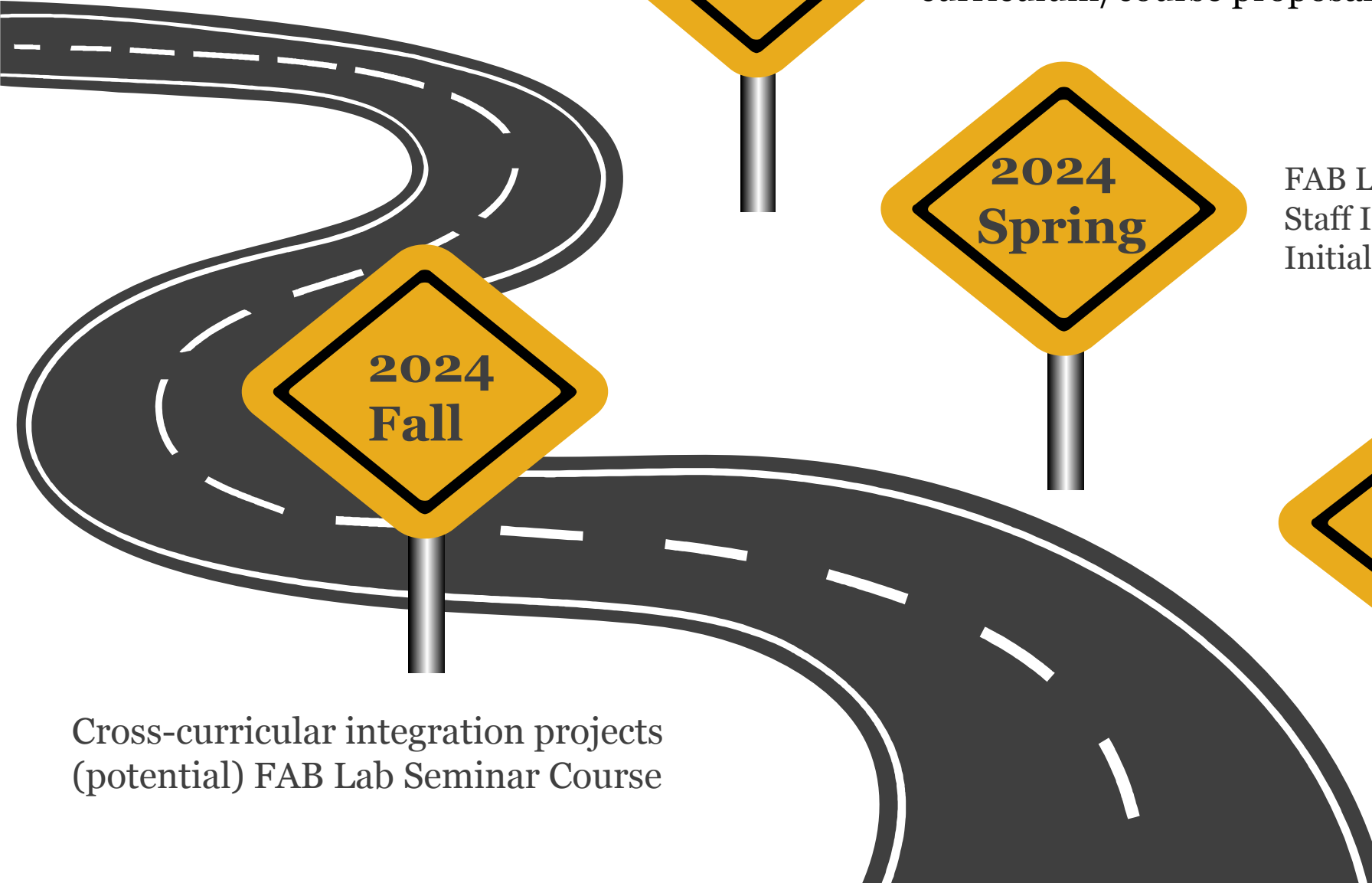
FAB Lab built  
Staff In-Service  
Initial Cross-Curricular lessons in FAB Lab



Cross-curricular integration projects  
(potential) FAB Lab Seminar Course



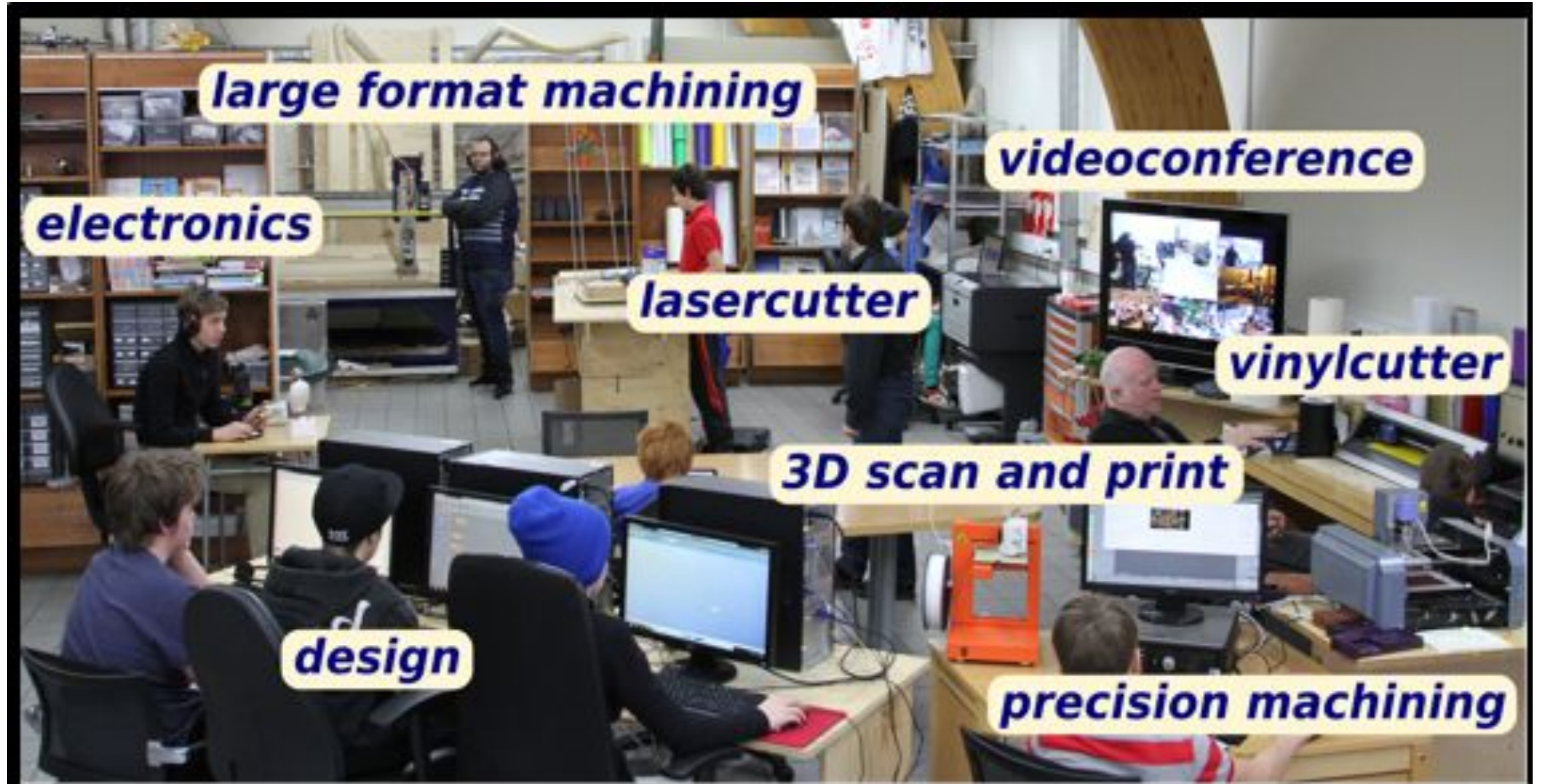
On-going STEM  
integration, building of  
FAB Lab model K-12



# Supporting FAB Lab at MHS

- Personnel
- Facility
- Materials

# What Does A FAB Lab Look Like?



# FAB Lab in Methacton - Teaching and Learning

## **Cross-Curricular Integration at MHS**

Target: Spring 2024

- Staff Inservice: Activity in the FAB Lab
- Initial Cross-Curricular Class Visits

Target: Summer 2024

- Professional Learning through MIAC for interested teachers

Target: Fall 2024

- Integration Specialist works with teachers to design and instruct fab lab projects

## **FAB LAB Seminar Course**

- Course proposal to be submitted to Education Committee - October 2023

## **STEM Vision for connecting schools through FAB Lab**

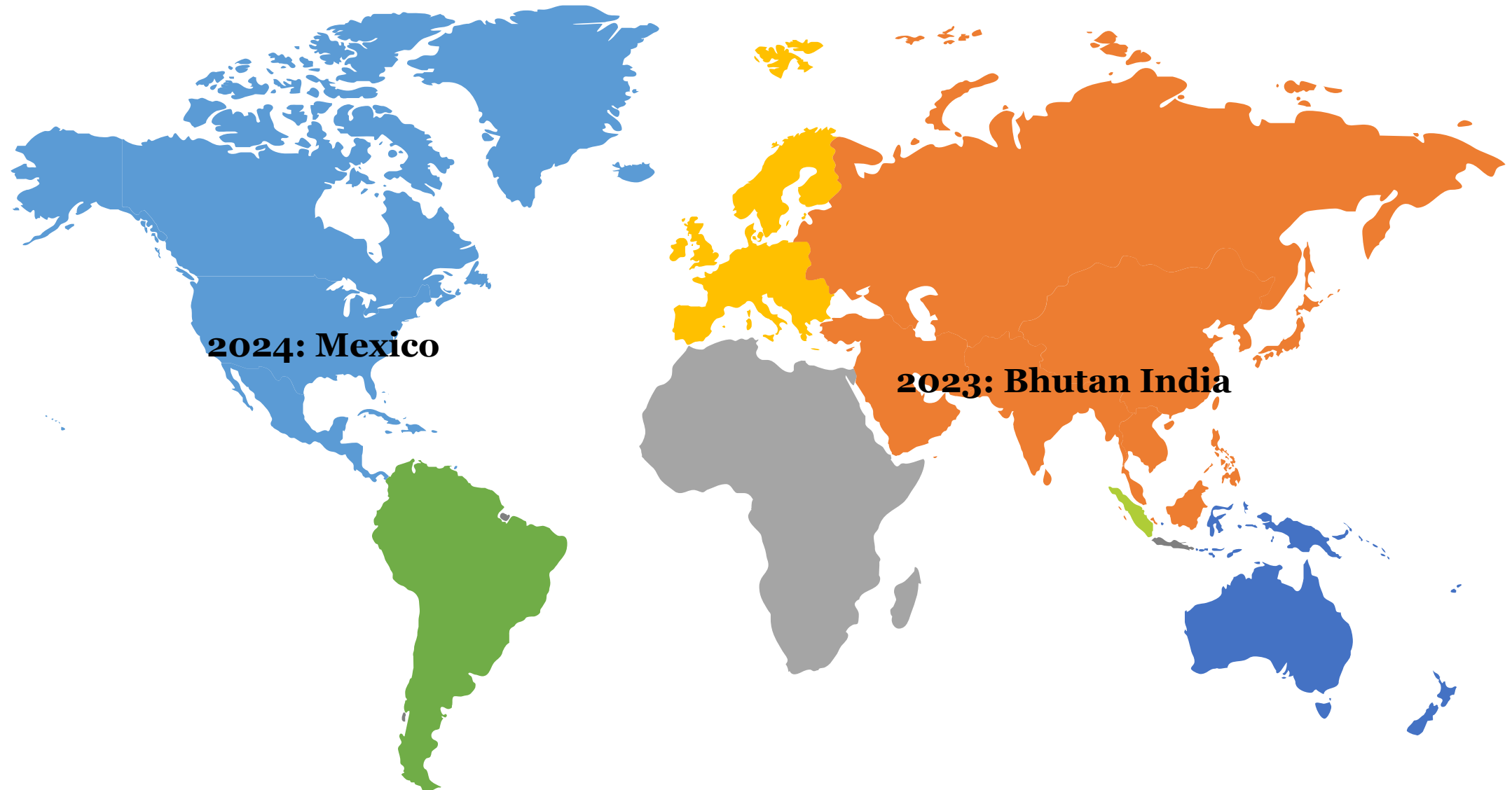
Local Connections

- High School Students and their role in supporting the development of Middle School FAB Lab
- Engaging Elementary students in FAB Lab experiences
- Community Engagement
- Goal: Getting students excited about STEM learning experiences and the opportunities available at Methacton High School.

Global Connections

- Worldwide Fab Lab network

# FABx Event - Worldwide Collaboration Opportunity





Thank You



**FAB LAB**