

#### Preventing Concussion at the Source



- · Skill development
- · Skill Evaluation
- · Skill Intervention
- · Injury Tracking
- Informed Coaching Practices













- Behavioral interventions are effective toward improving tackling technique in collegiate football players (Swartz et al. 2015, J AthlTrain.)
- Data-informed intervention can be used to improve coaching practices and ameliorate tackling and blocking skills in high-school football athletes

  (Champagne et al. 2019, Med Sci Sports Exerc.)
- Learner-controlled video feedback and behavior interventions are necessary for effective development of tackling and blocking techniques in youth (DiStefano et al. 2021, submitted)
- Understanding mechanisms of injury is critical for the development of effective injury prevention initiatives in sports (Barh et al. 2005, Br J Sports Med)
- Improvement in tackling technique can subsequently reduce the risk for head injuries (Tucker et al. 2017, Br J Sports Med)

### Infrastructure required for injury prevention

## **Objective**

Prevent injuries at the level of skill development

#### Requirements

An infrastructure that allows for standardized evaluations toward informing the design of data-driven behavioral interventions

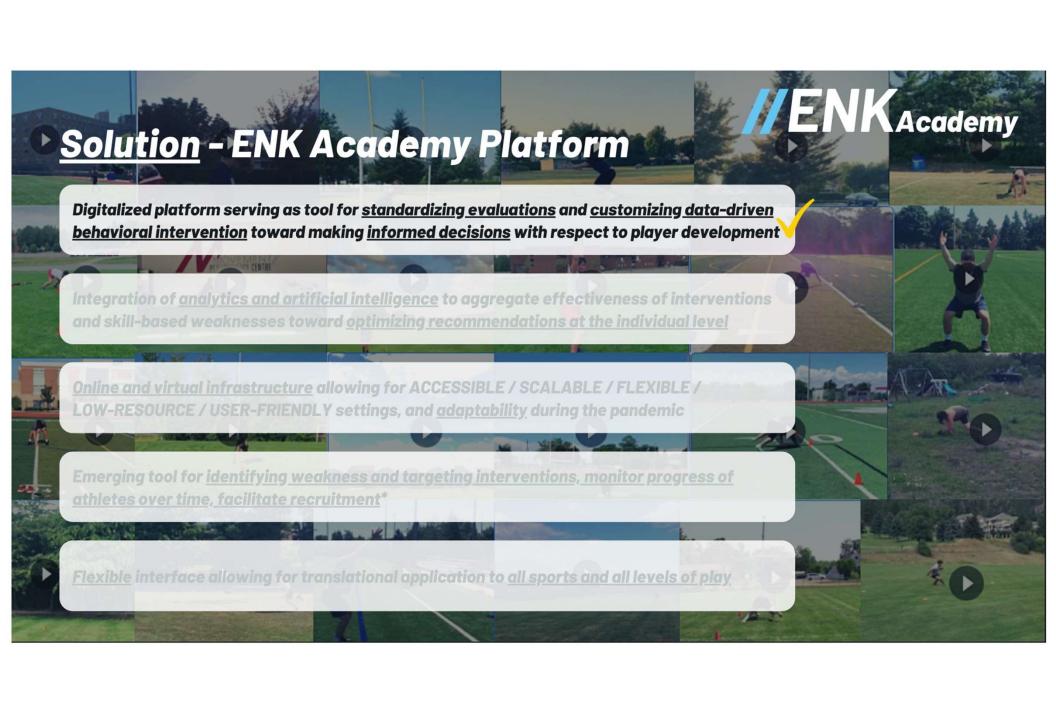
- Accessible
- Scalable
- Flexible
- Low-resource
- User-friendly

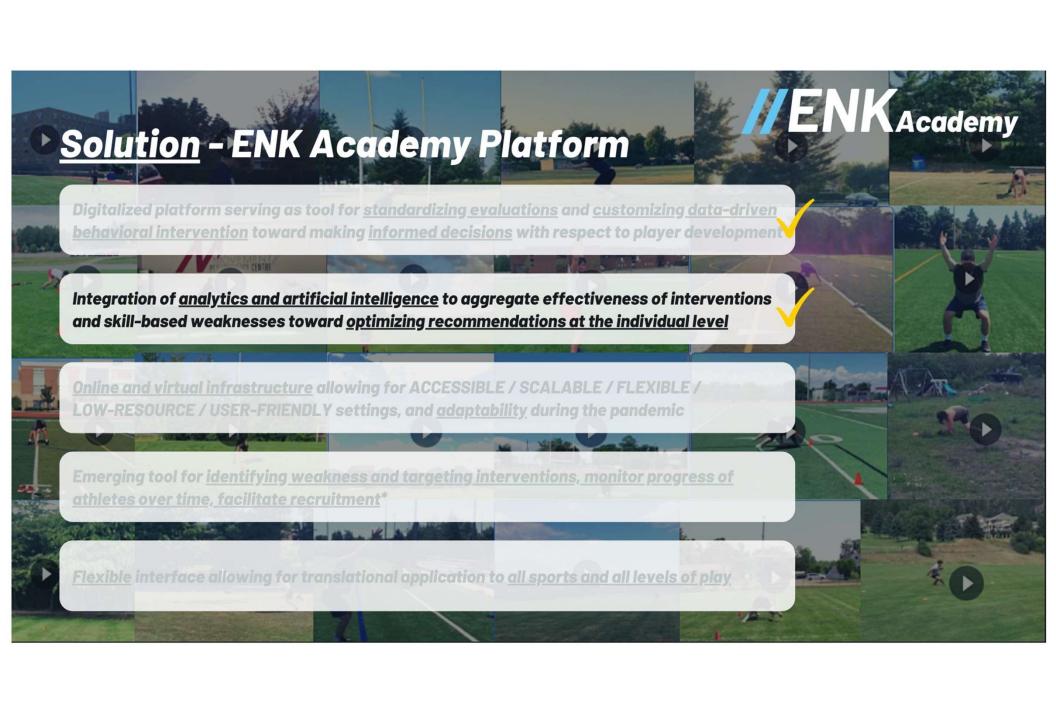
#### **Mechanism of action**

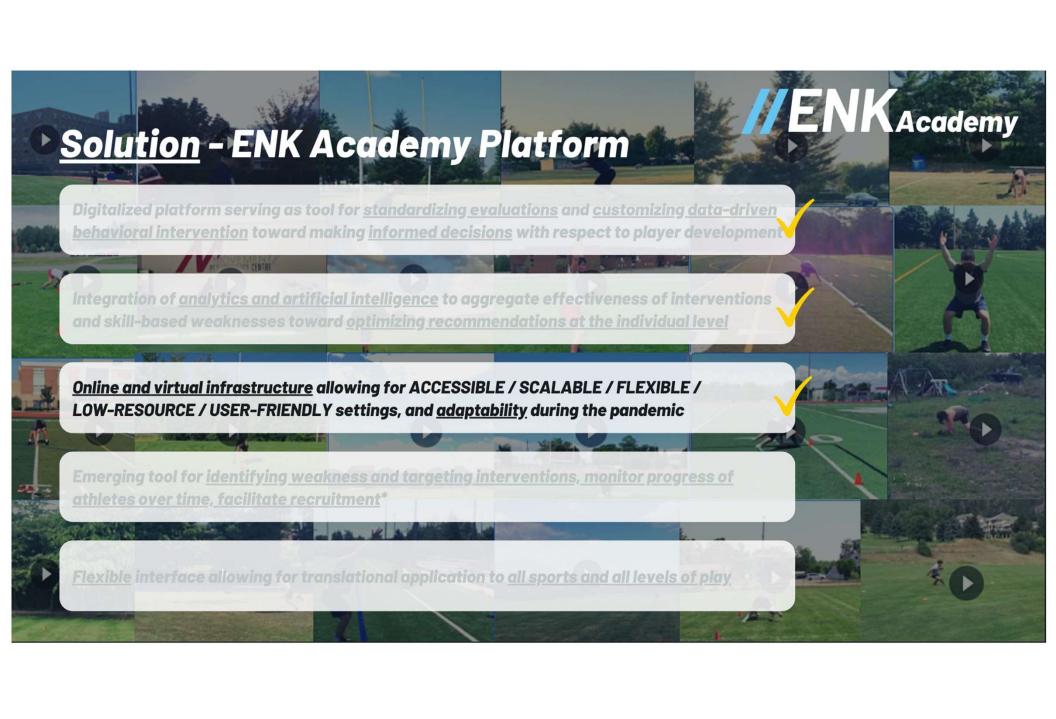
Identify skill proficiencies and weaknesses as building blocks for customization of behavioural interventions targeted toward enhancing skill development at all levels of sports, with the objective to improve safety and reduce sport-related injuries

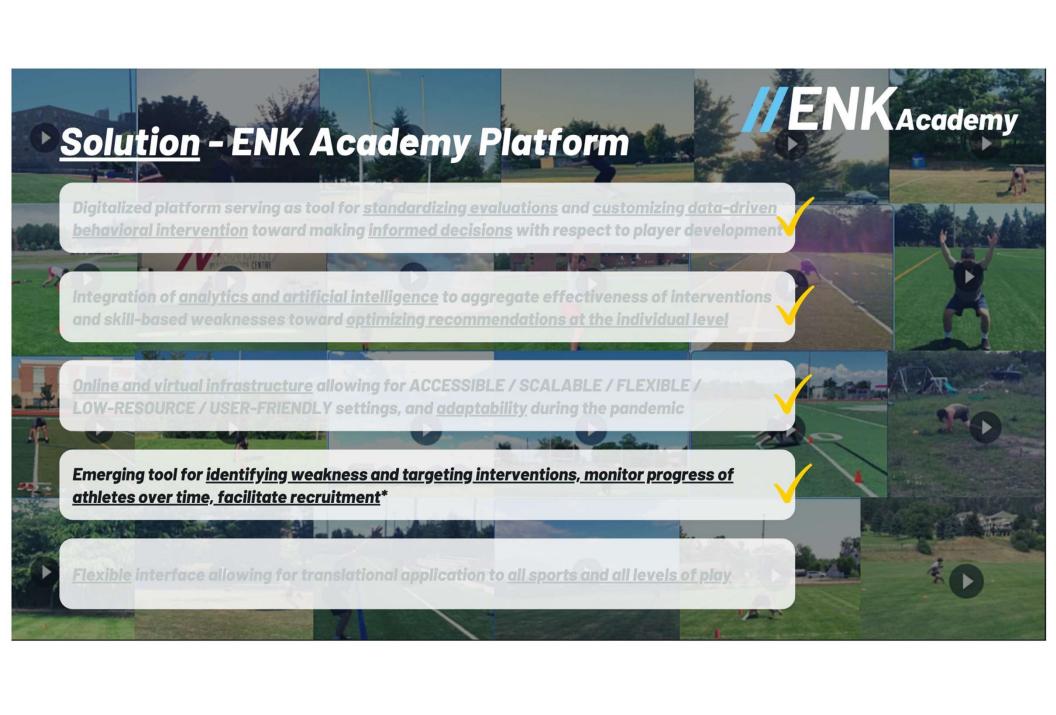


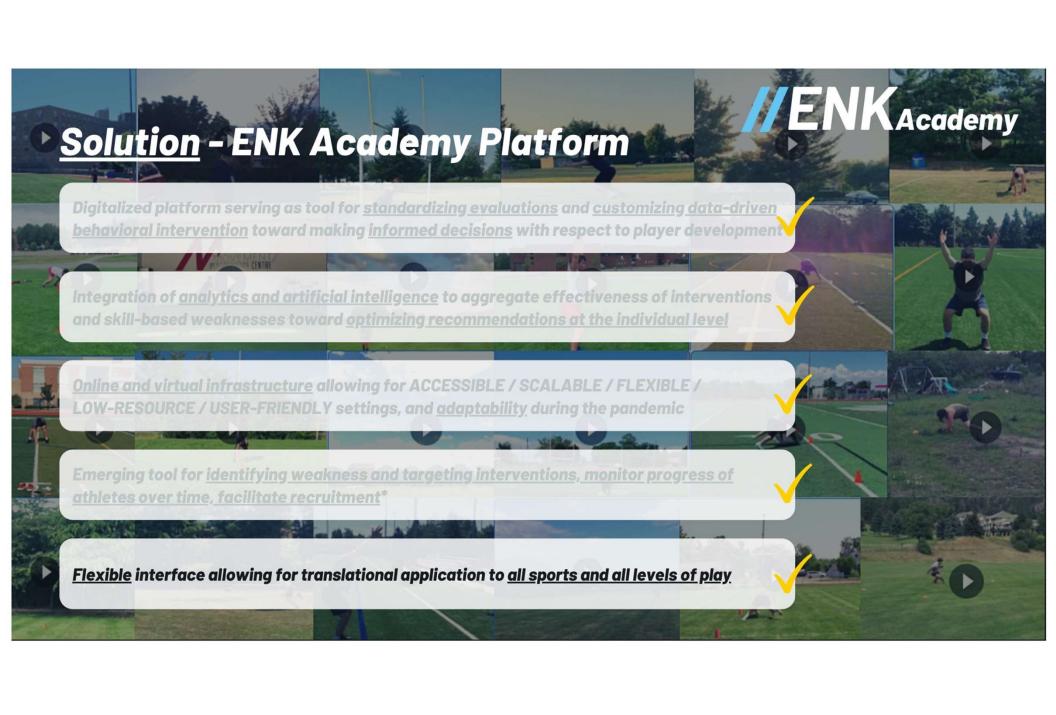
Safety-Driven
Performance Enhancement



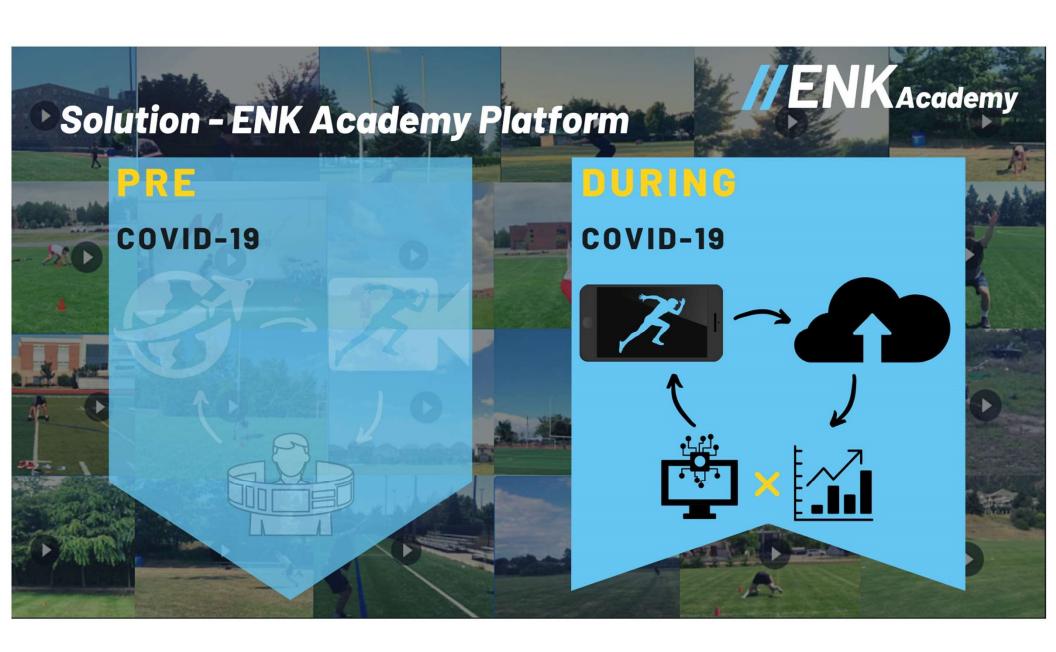






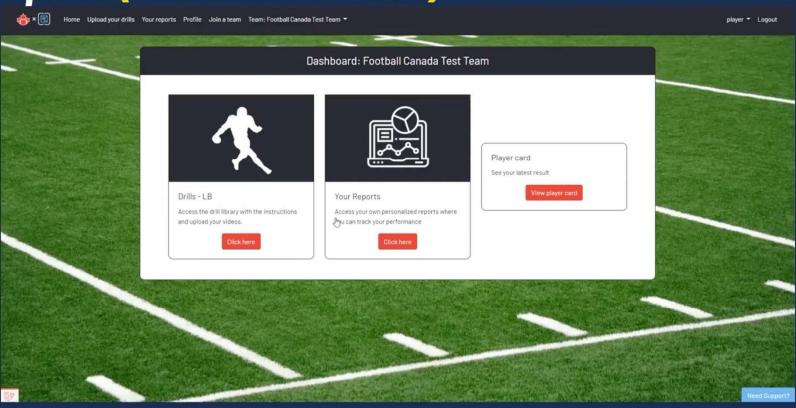




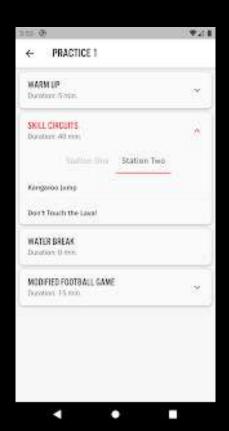


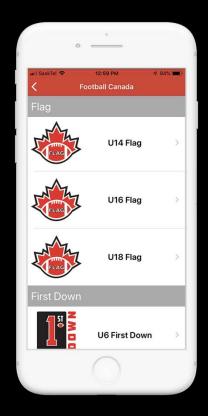


# Solution - ENK Academy Platform - Example A (PRE-intervention)



#### Football Canada Mobile









# FOOTBALL CANADA, ENK LAUNCH VIRTUAL NATIONAL COMBINE PILOT THROUGH ENK

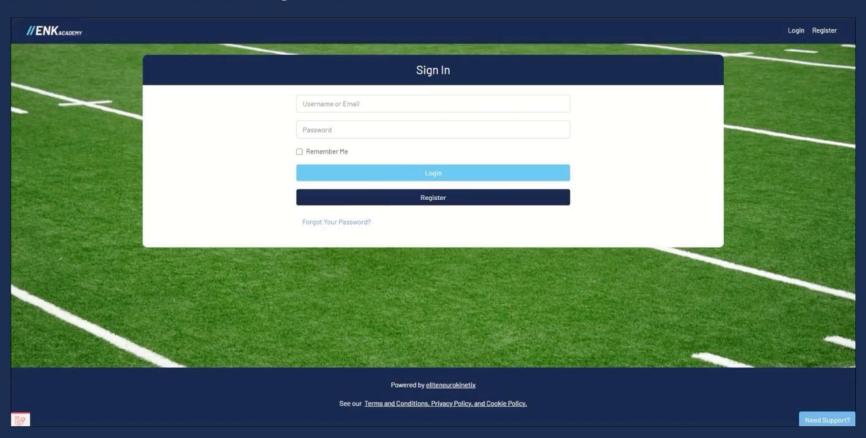


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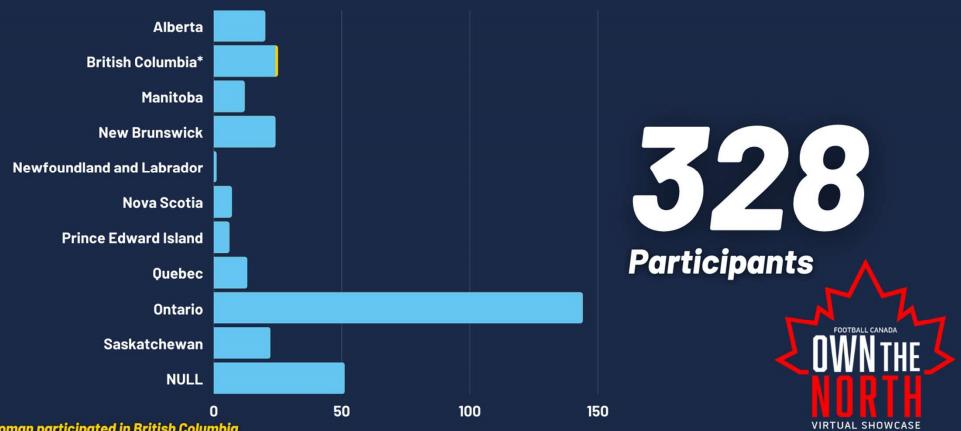


#### Solution - ENK Academy Platform



#### Participation by province for the National Combine initiative (To date)



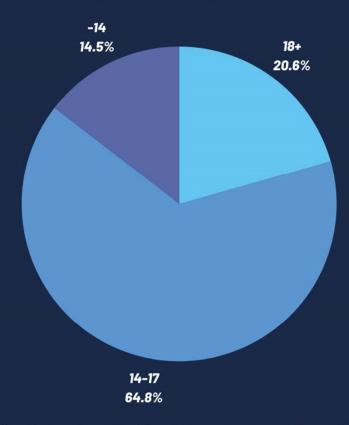


\*1 woman participated in British Columbia

\*It is not mandatory to mention the province. That is why there are some players that left this area blank.



## Participation by age group for the National Combine initiative (to date)



328
Participants

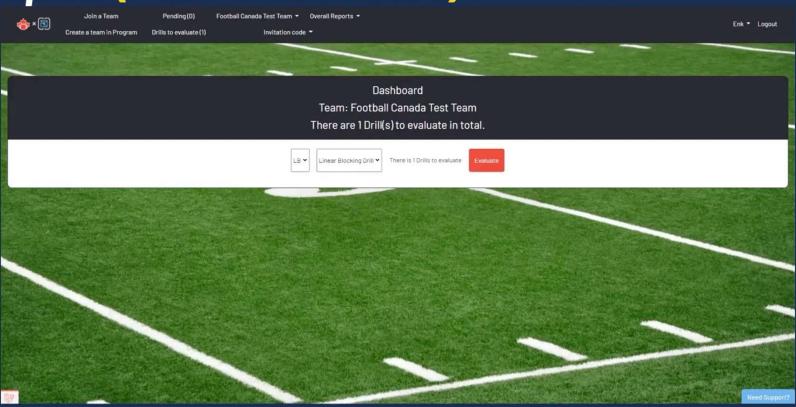
FOOTBALL CANADA

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\*It is not mandatory to mention the province. That is why there are some players that left this area blank.



# Solution - ENK Academy Platform - Example B (POST-intervention)



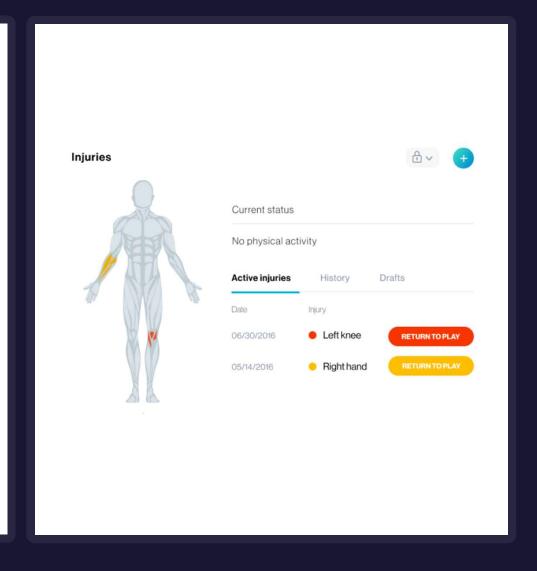
#### PARTNERSHIP ANNOUNCEMENT

#### PLAYER'S HEALTH









## **Moving Forward**

- ♦ Increase Scale
- ♦ Integrate all platforms
- ♦ Enhance Coaching practices
- ♦ Strengthen policies

