

# Moving Well-Being Well Getting Ireland's Children Moving

**Stephen Behan - PhD Candidate** 

Supervisors: Dr. Johann Issartel, Dr. Sarahjane Belton & Prof. Noel O'Connor

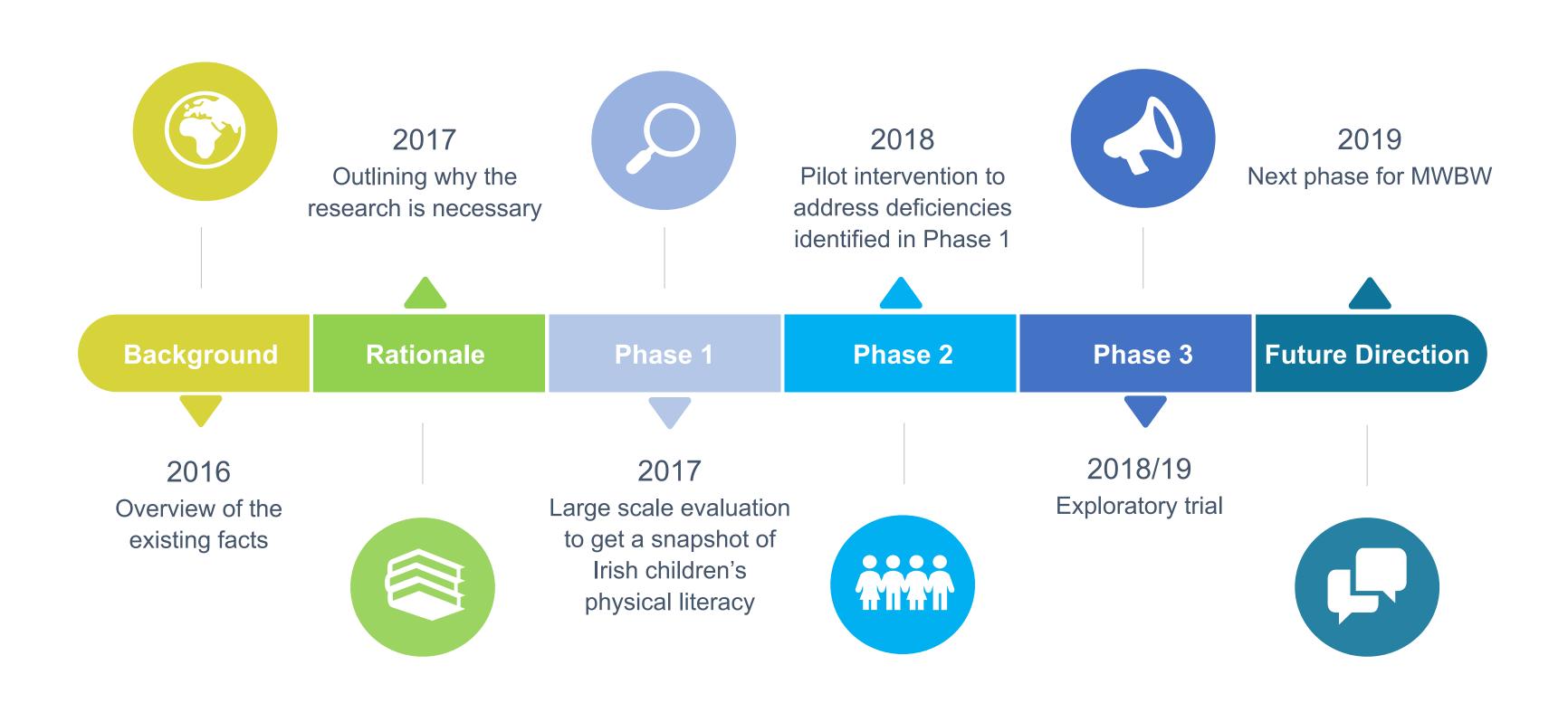








#### THE STORY SO FAR





#### Background

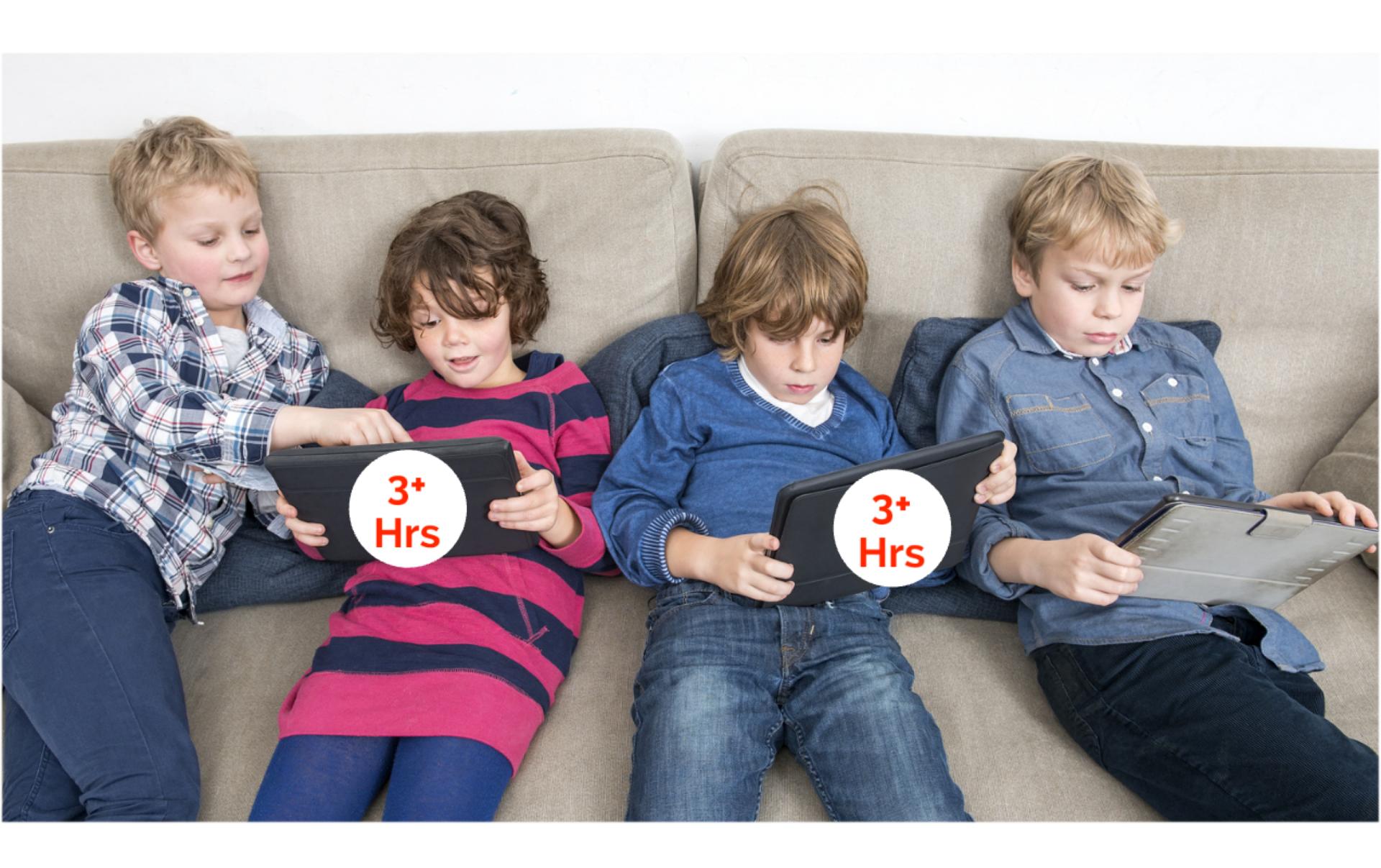


"Ireland to be the most obese nation in Europe by 2030"

**World Health Organisation** 

"One in four children overweight or obese"

**Growing up in Ireland Report** 





# Lots of initiatives to promote physical activity.....

It's not working



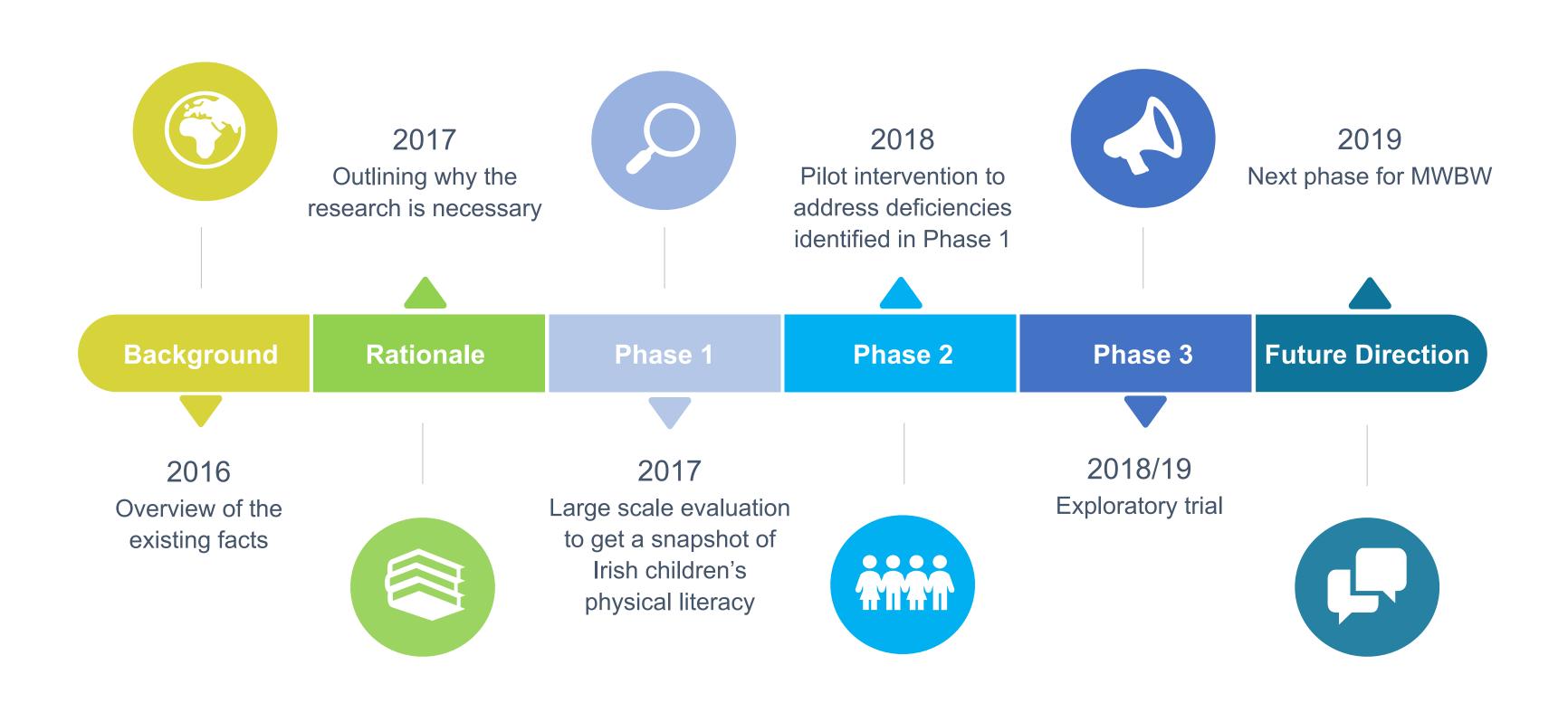




## Background



#### THE STORY SO FAR

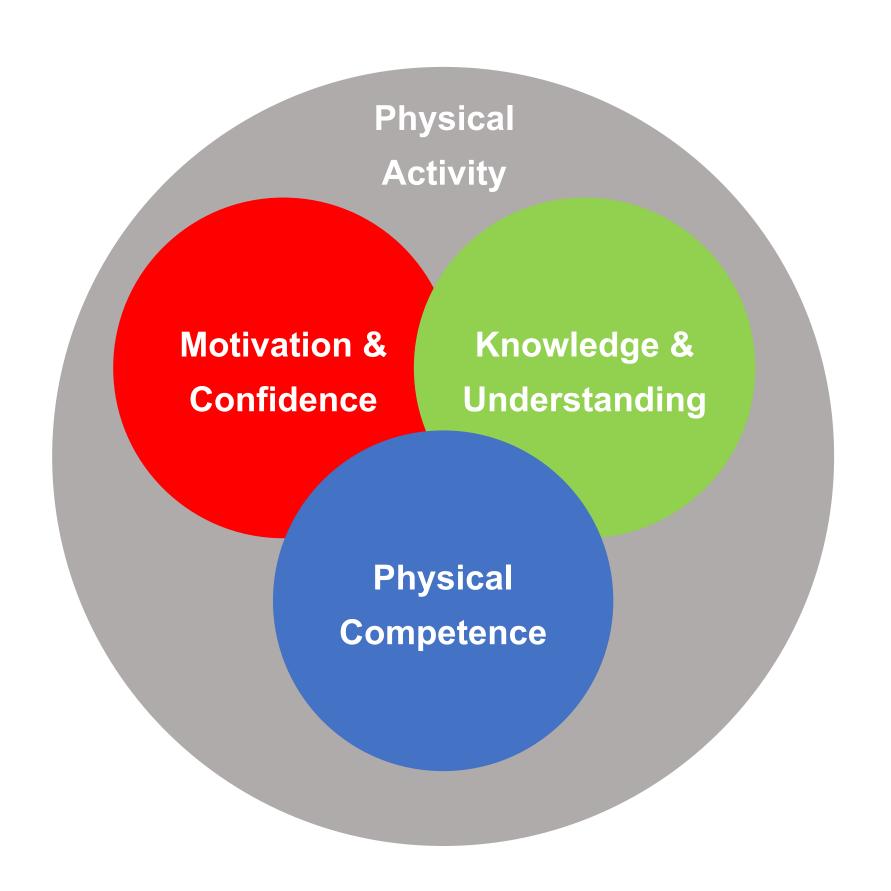




#### What motivates children to be physically active?



#### **Physical Literacy**



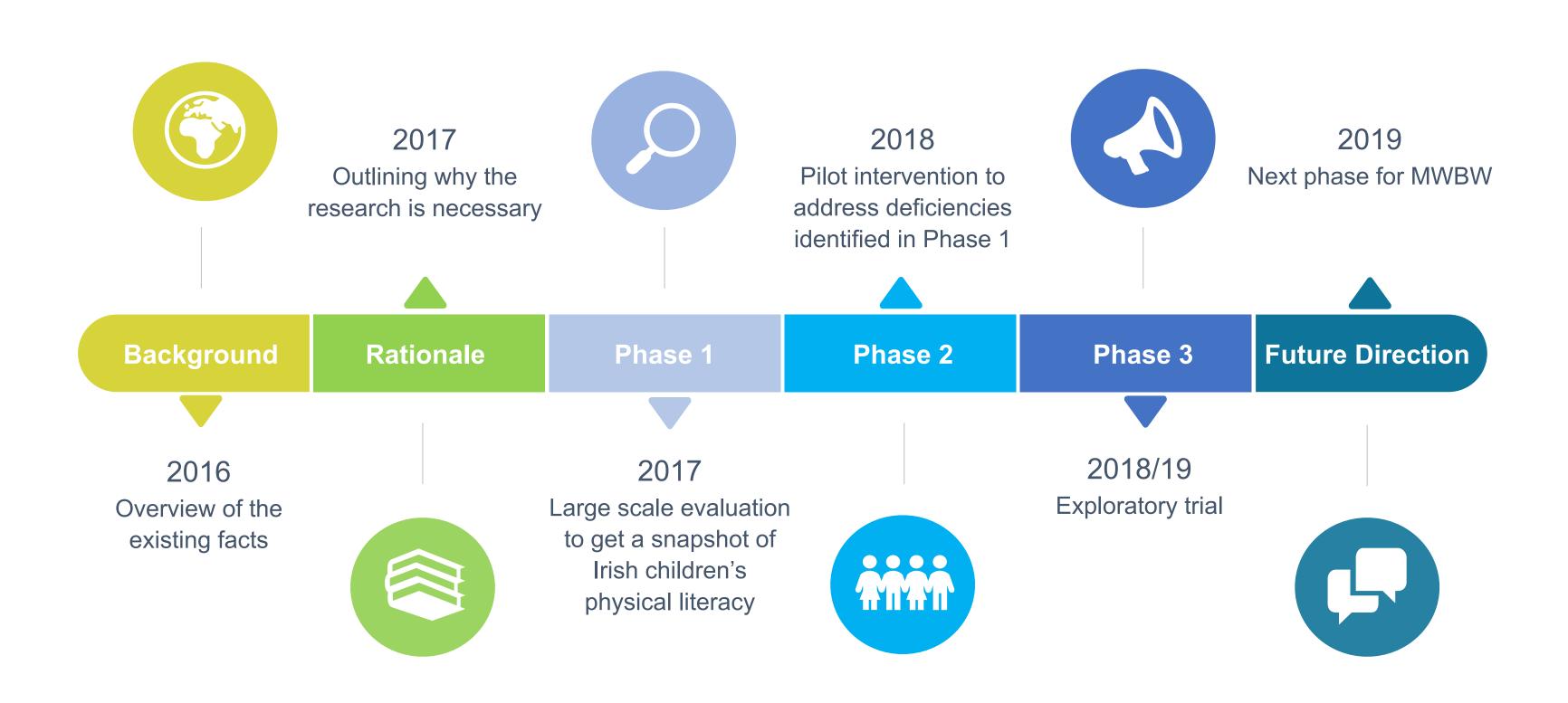
"Physical Literacy is the motivation, confidence, physical competence, knowledge and understanding to value and take responsibility for engagement in physical activities for life"





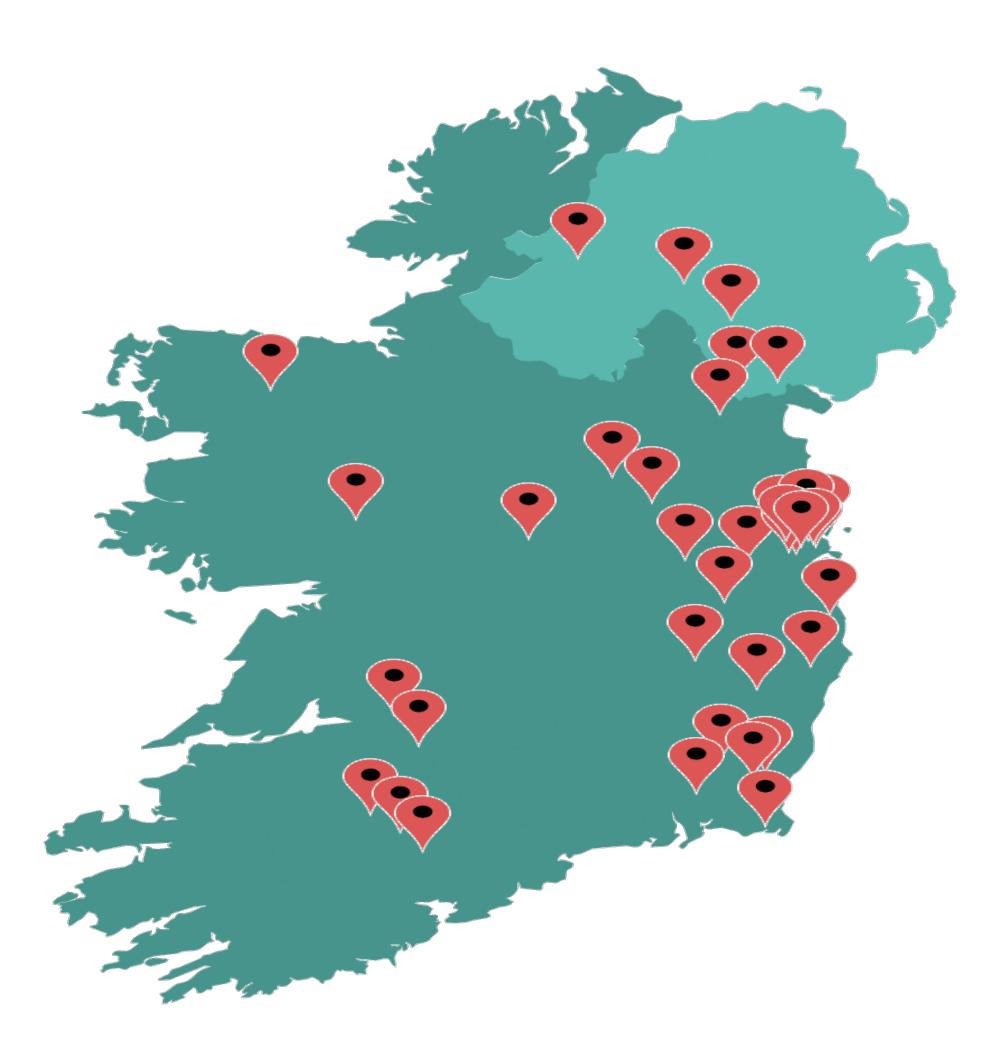


#### THE STORY SO FAR





#### Phase 1 - Data Collection



2,148

children assessed

12 counties across all four provinces

44 schools

100 classes from Junior Infants to 6<sup>th</sup> Class

10,000+

kilometres travelled





#### Phase 1 - Data Collection

#### What we measured:

- FMS Proficiency
- Perceived FMS Competence
- Height, Weight (BMI) and Waist Circumference
- Strength Grip and Plank
- Flexibility
- VO2 Max
- Physical activity Self reported, parent reported and pedometers (sample)

- Motivation
- Self Efficacy
- Knowledge and understanding\*
- Wellbeing
- Body Image
- Neurocognitive assessment
- Teacher questionnaire

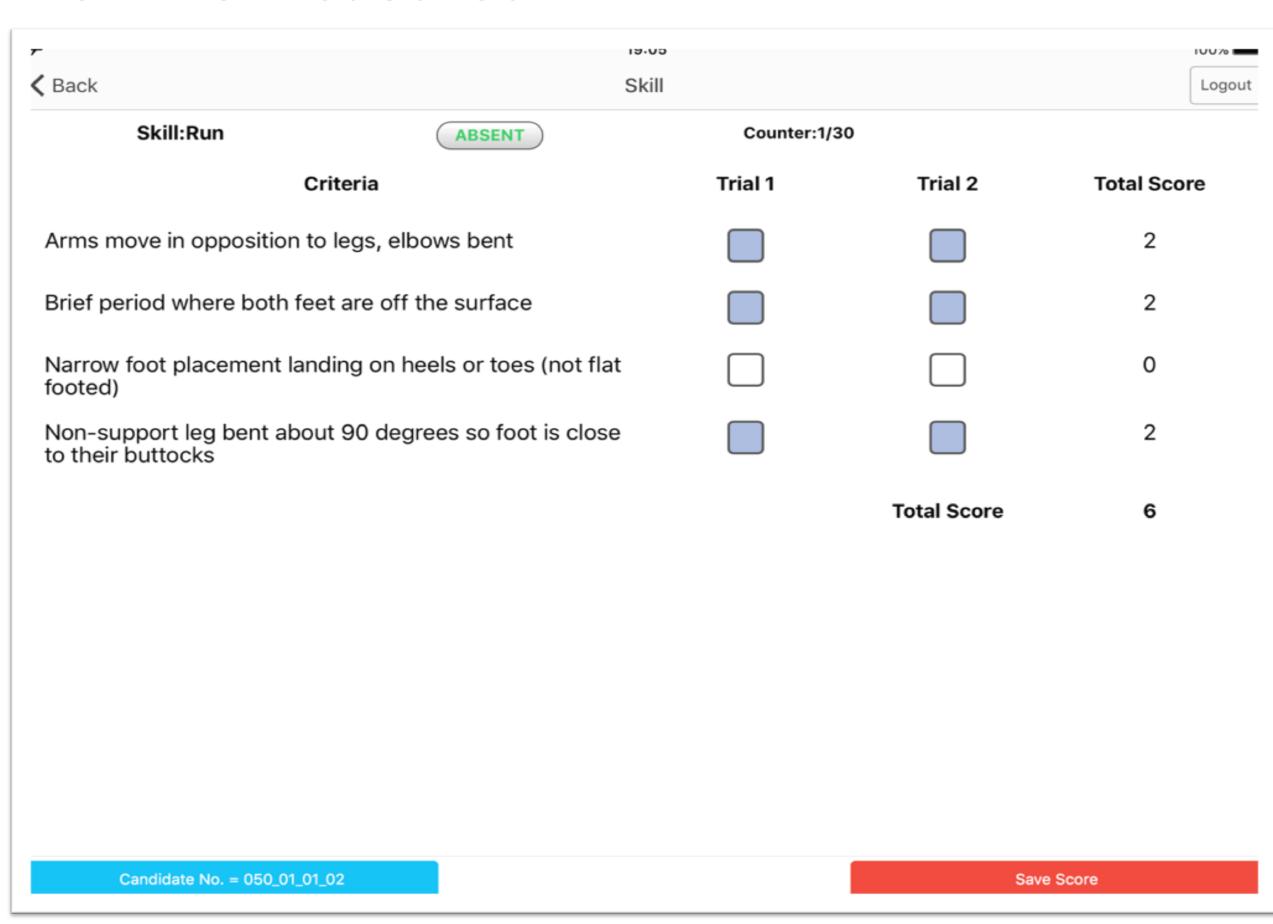
Parents questionnaire

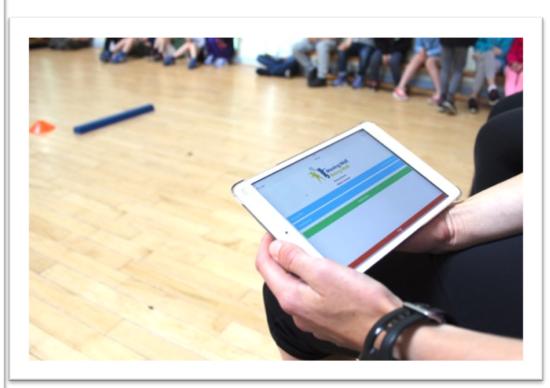
All validated instruments for measurement



### Phase 1 - Data Collection

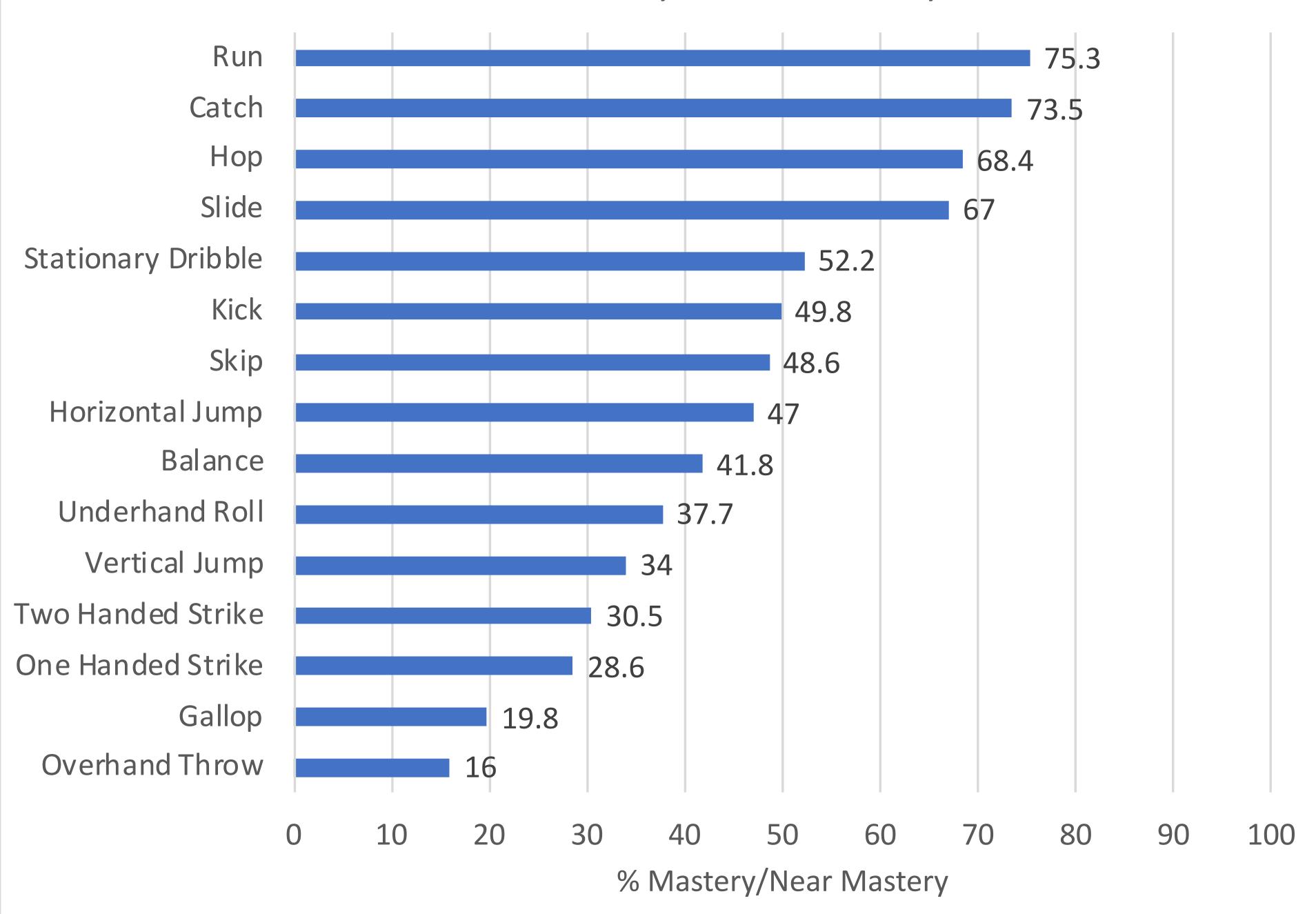
#### How we measured:



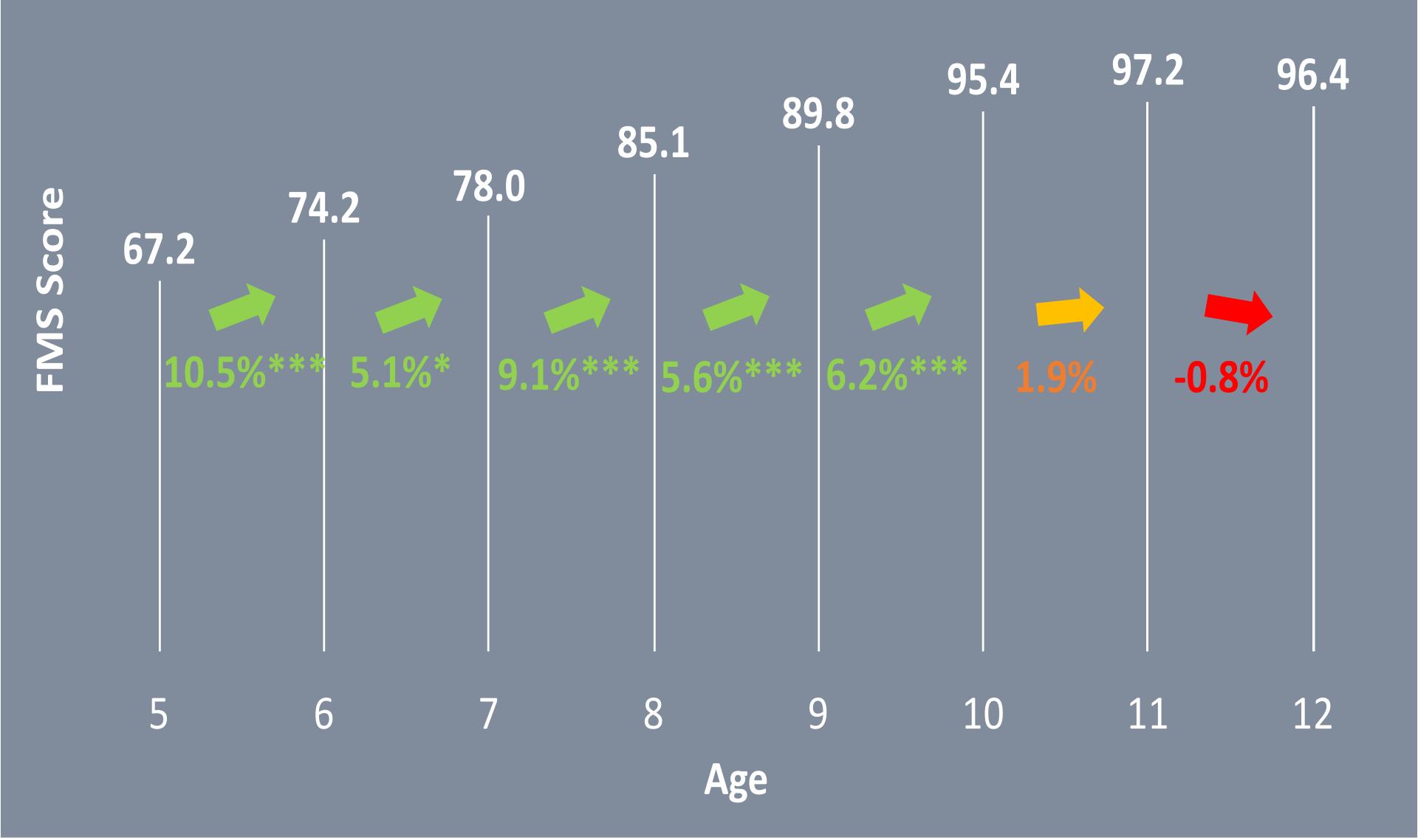




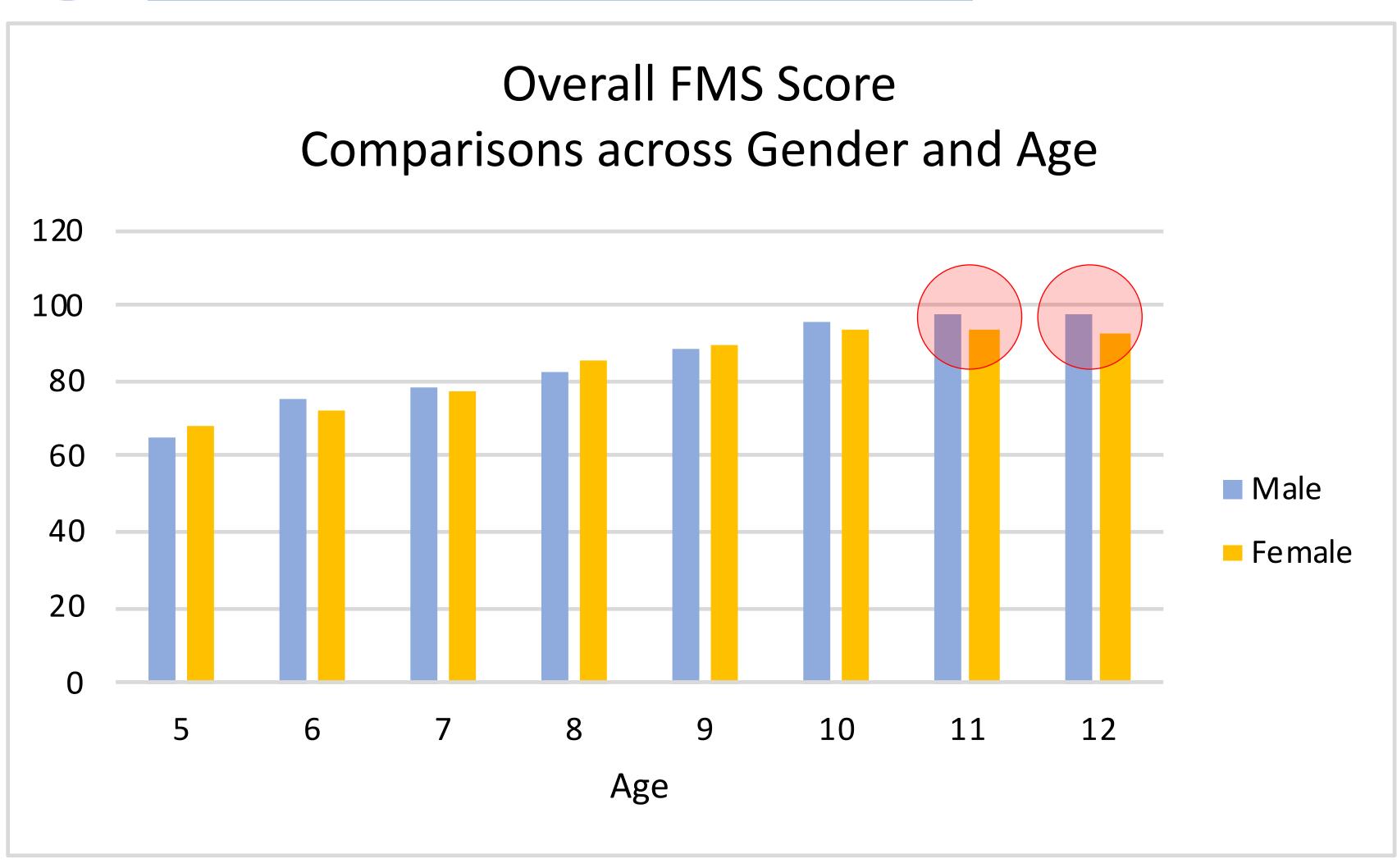
#### FMS Skills Mastery or Near Mastery



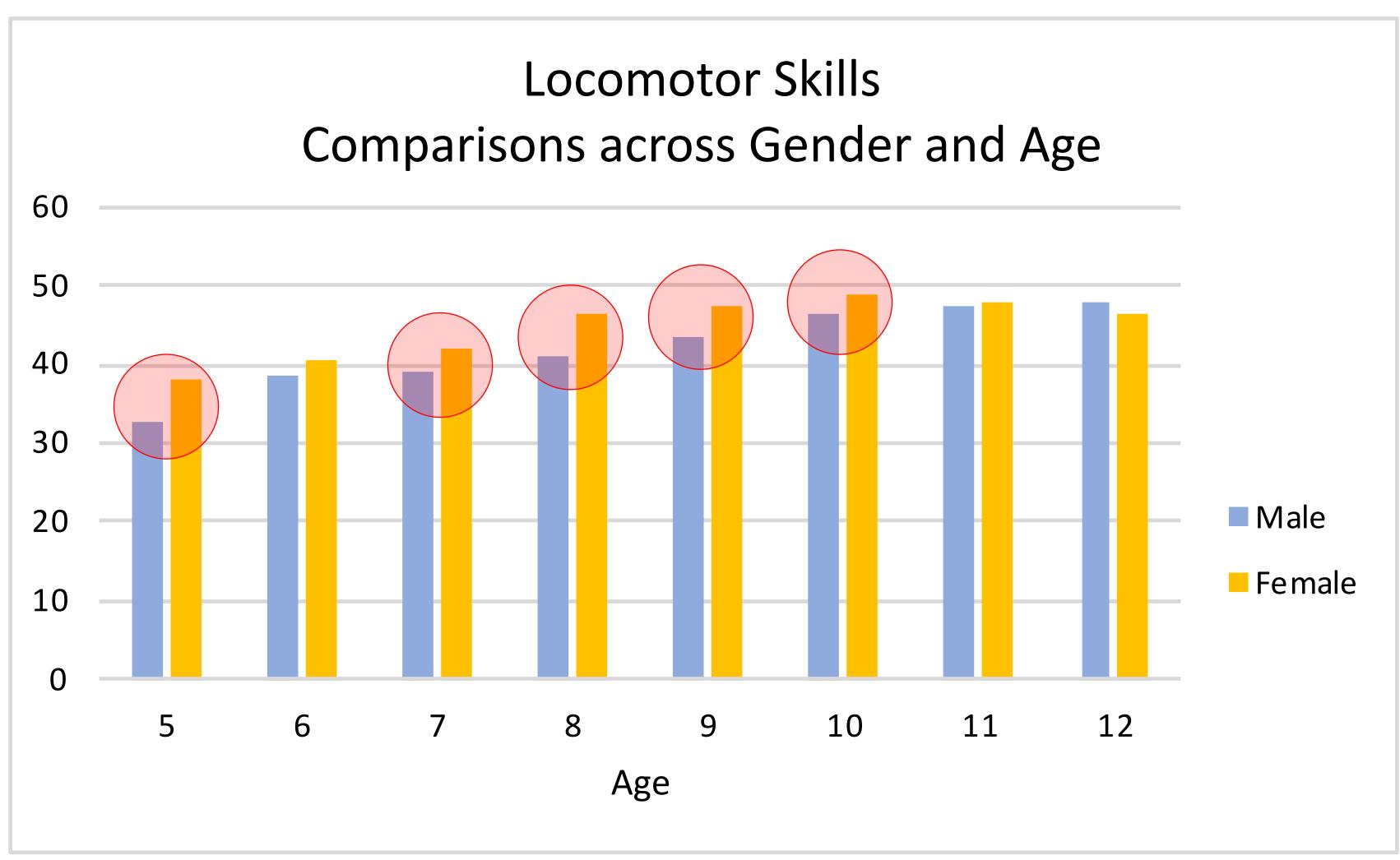
## OVERALL FMS SCORE ACROSS AGE INCLUDING PERCENTAGE CHANGE AND SIGNIFICANCE



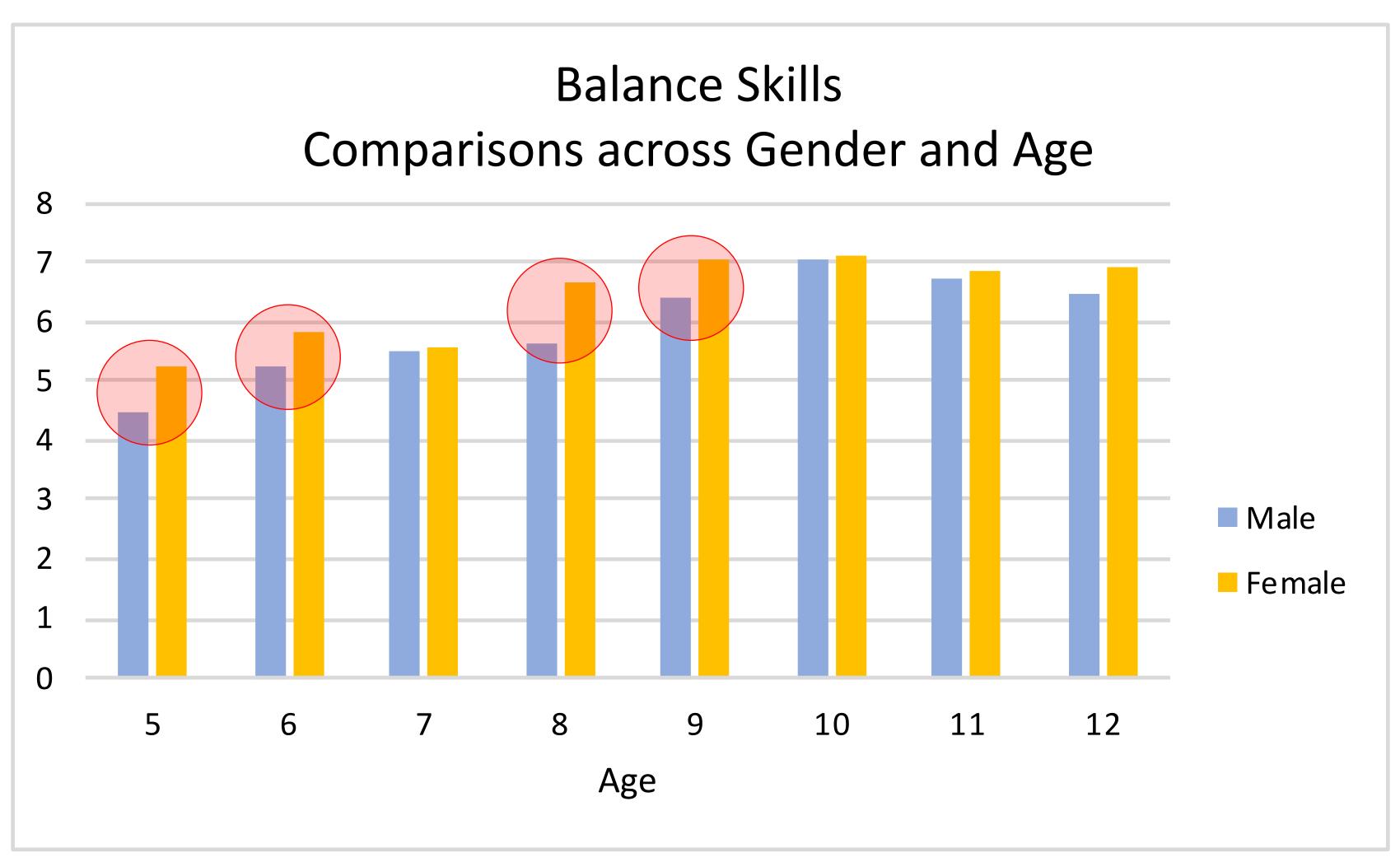




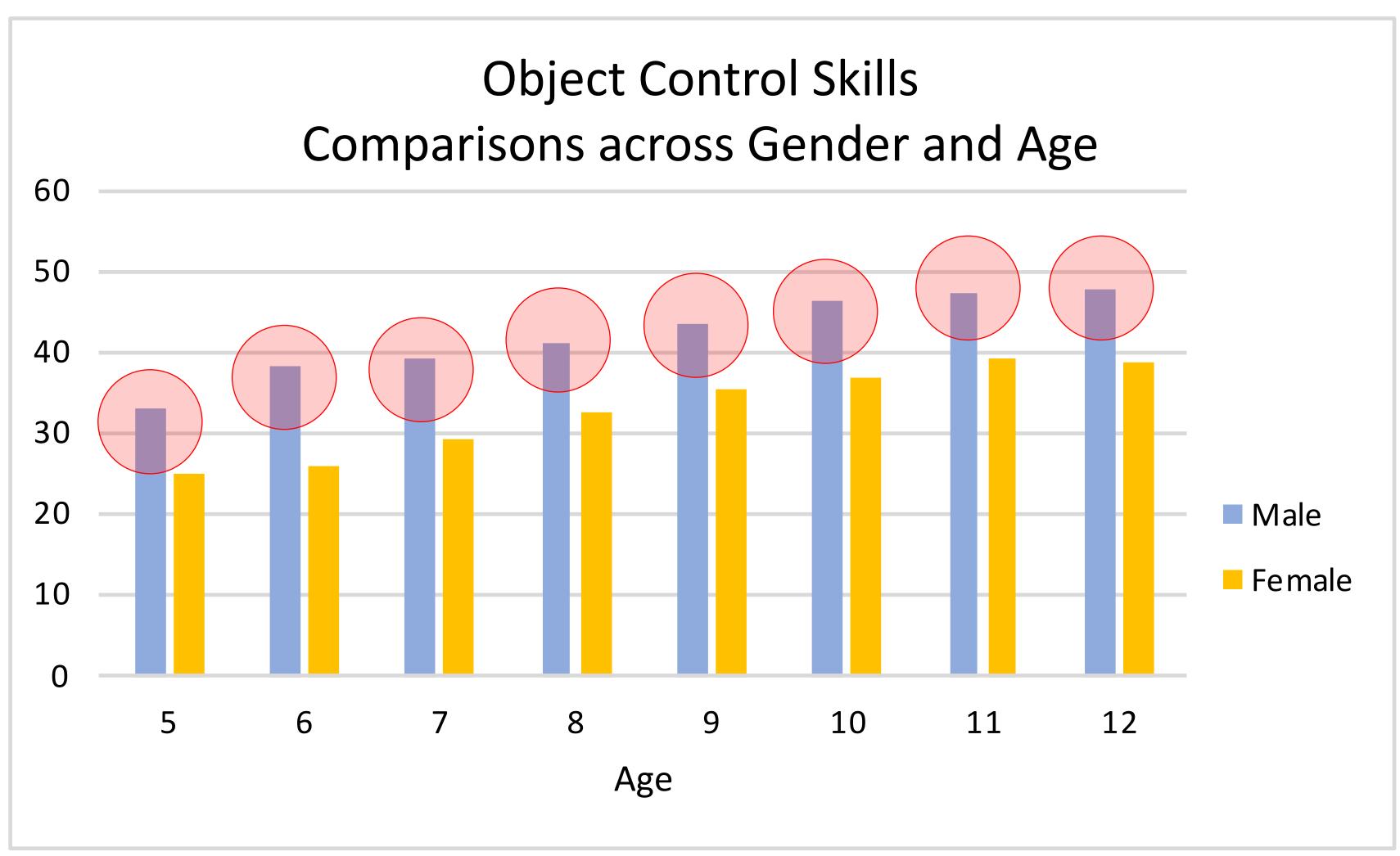














Health Related Fitness components measured;

Body Composition – BMI and Waist Circumference

Flexibility – Back Saver Sit and Reach

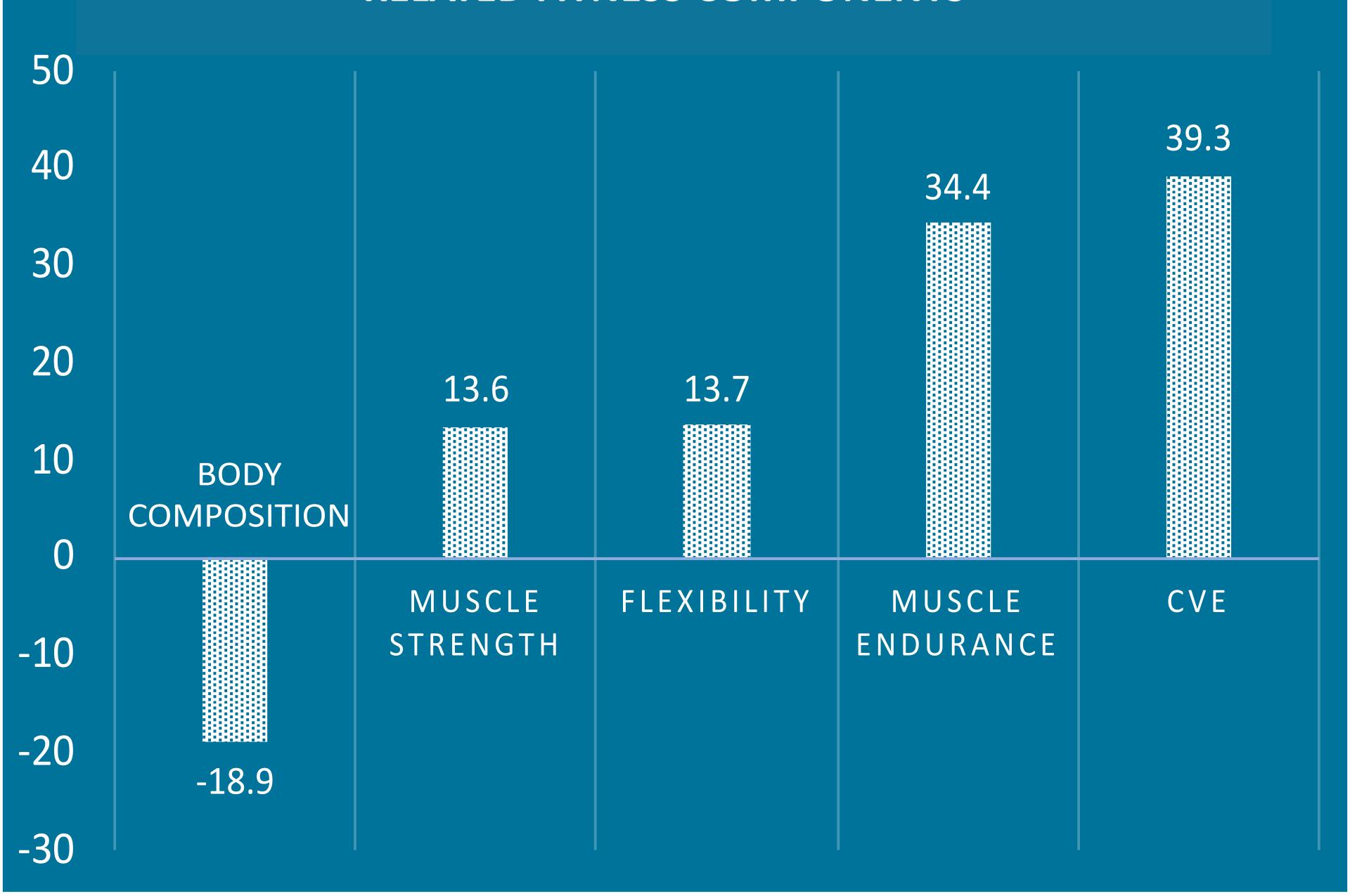
Muscle Strength – Grip Strength

Muscle Endurance – Plank Strength

Cardiovascular Endurance – 20m PACER Test

**Does FMS predict Health Related Fitness?** 

## FMS AS A PREDICTOR TO HEALTH RELATED FITNESS COMPONENTS





### Phase 1 – Motivation Results

#### **Intrinsic**

- We do because we want to
- Internally driven

#### **Identified**

- We do because we know we should
- Driven by knowledge

#### Introjected

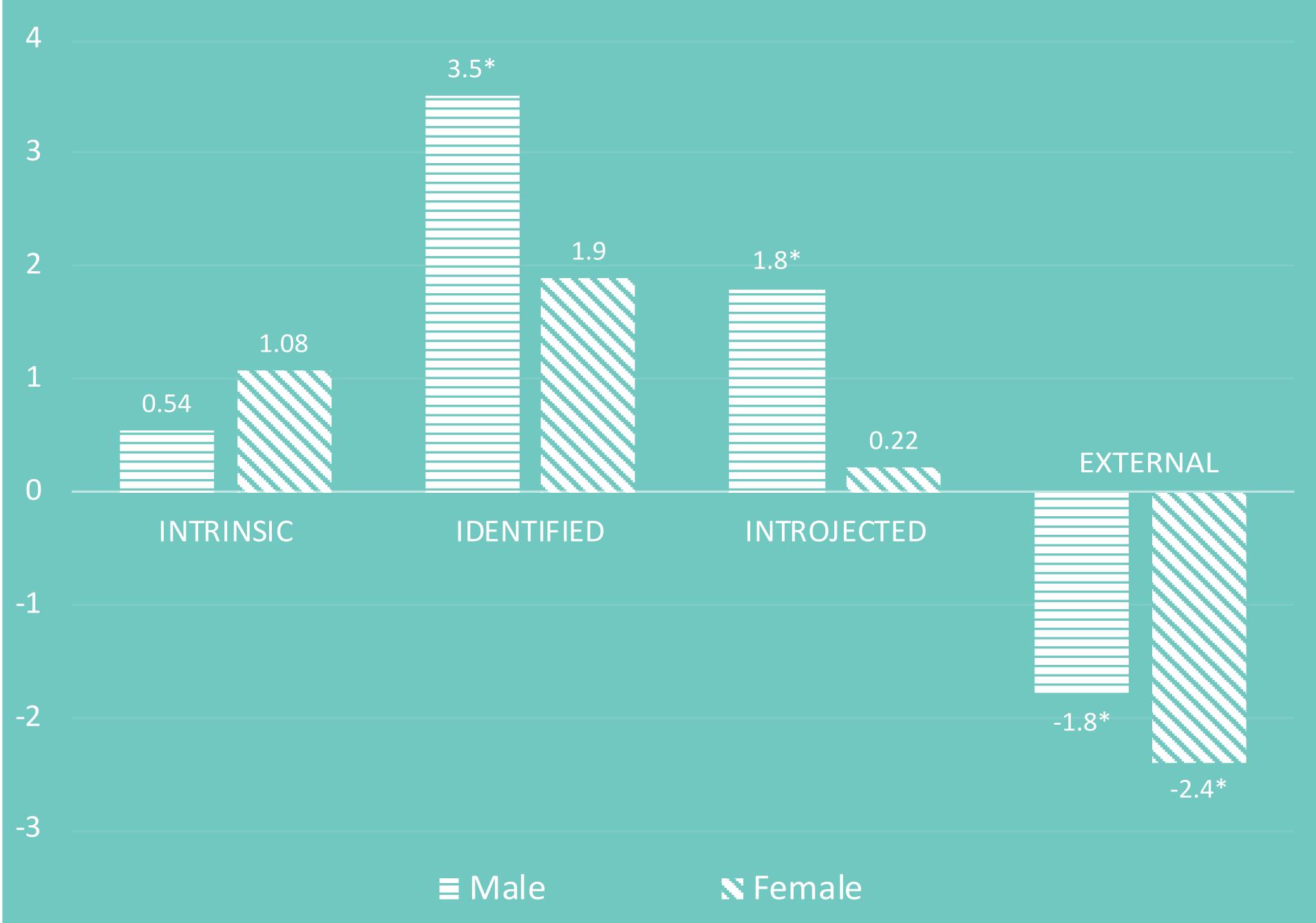
- We do because we feel we have to
- Feel guilty otherwise

#### **External**

- We do because we have to
- Outside force exerted



#### QUALITY OF MOTIVATION AS A PREDICTOR OF FMS





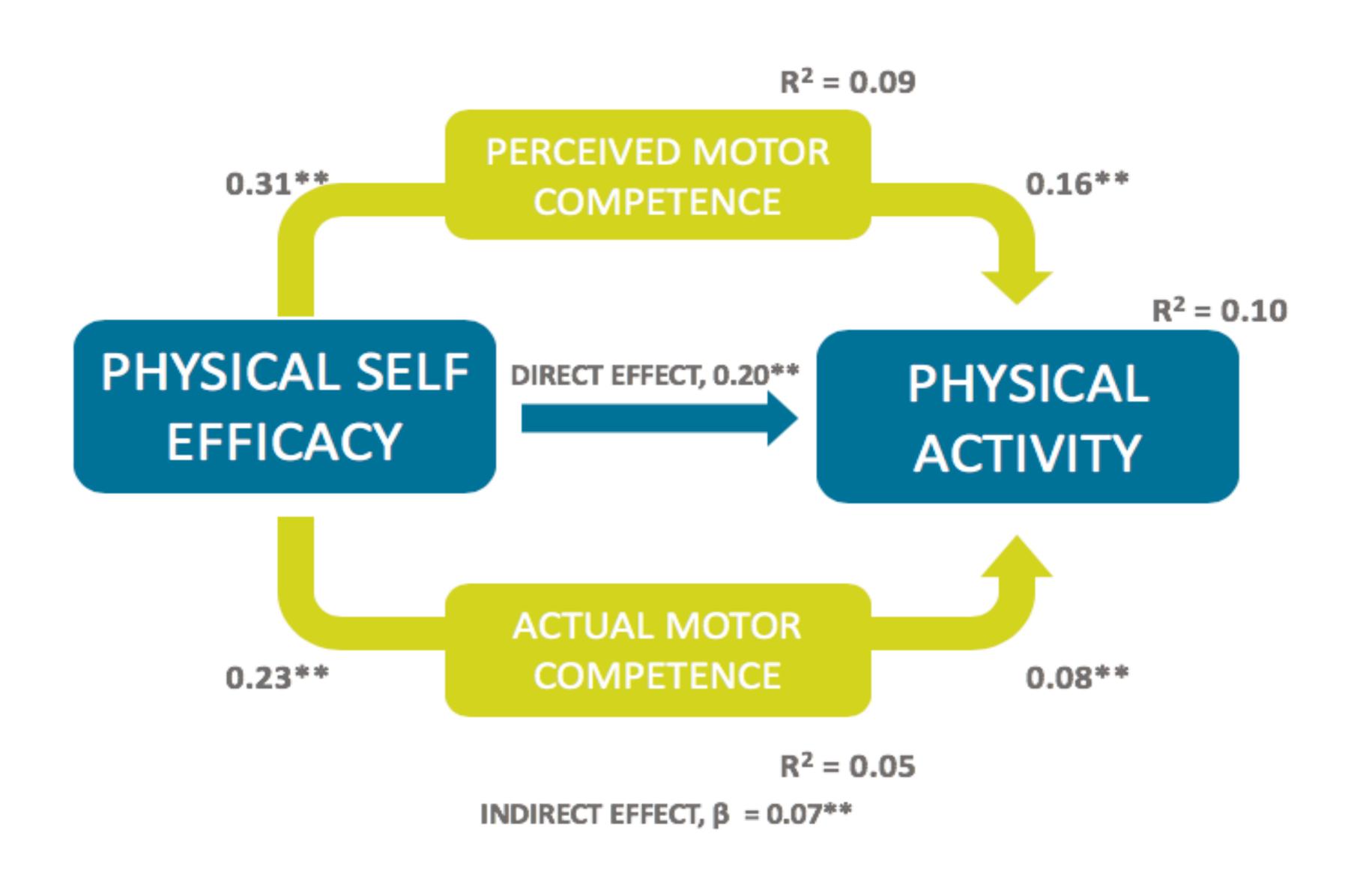
## Phase 1 – Confidence Results

Measuring Self Efficacy

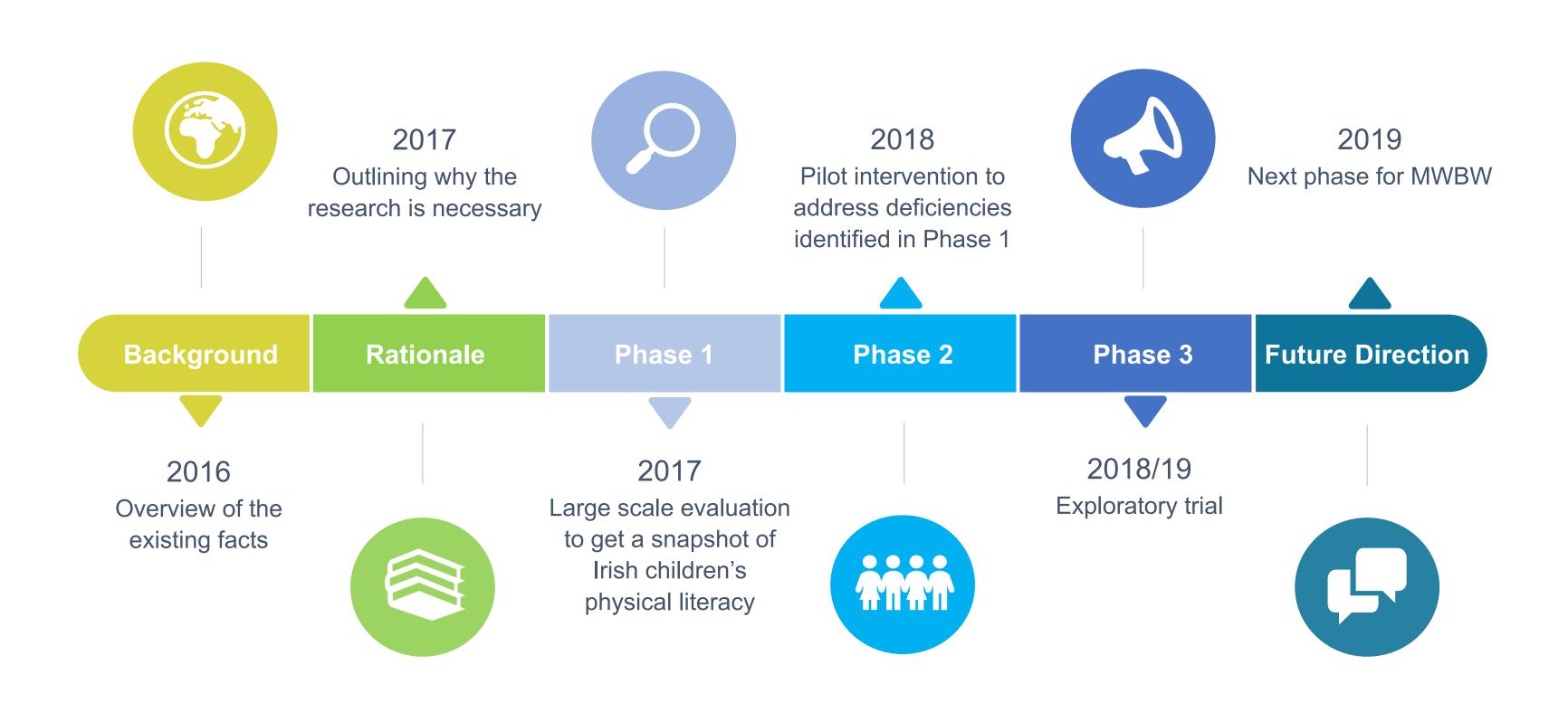
Physical Activity Self Efficacy Scale (PASES)

Self Report Physical Activity questionnaire

## PERCEIVED AND ACTUAL MOTOR COMPETENCE AS MEDIATORS FOR PHYSICAL ACTIVITY



#### THE STORY SO FAR



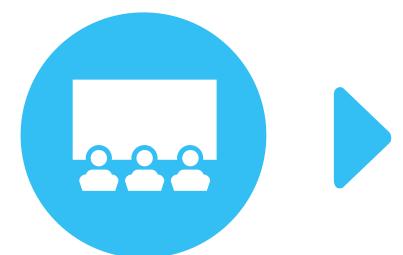


#### Phase 2 – Pilot Intervention



30 minute FMS based class led by coach Teacher repeats the same class

Coach upskills teacher on the job



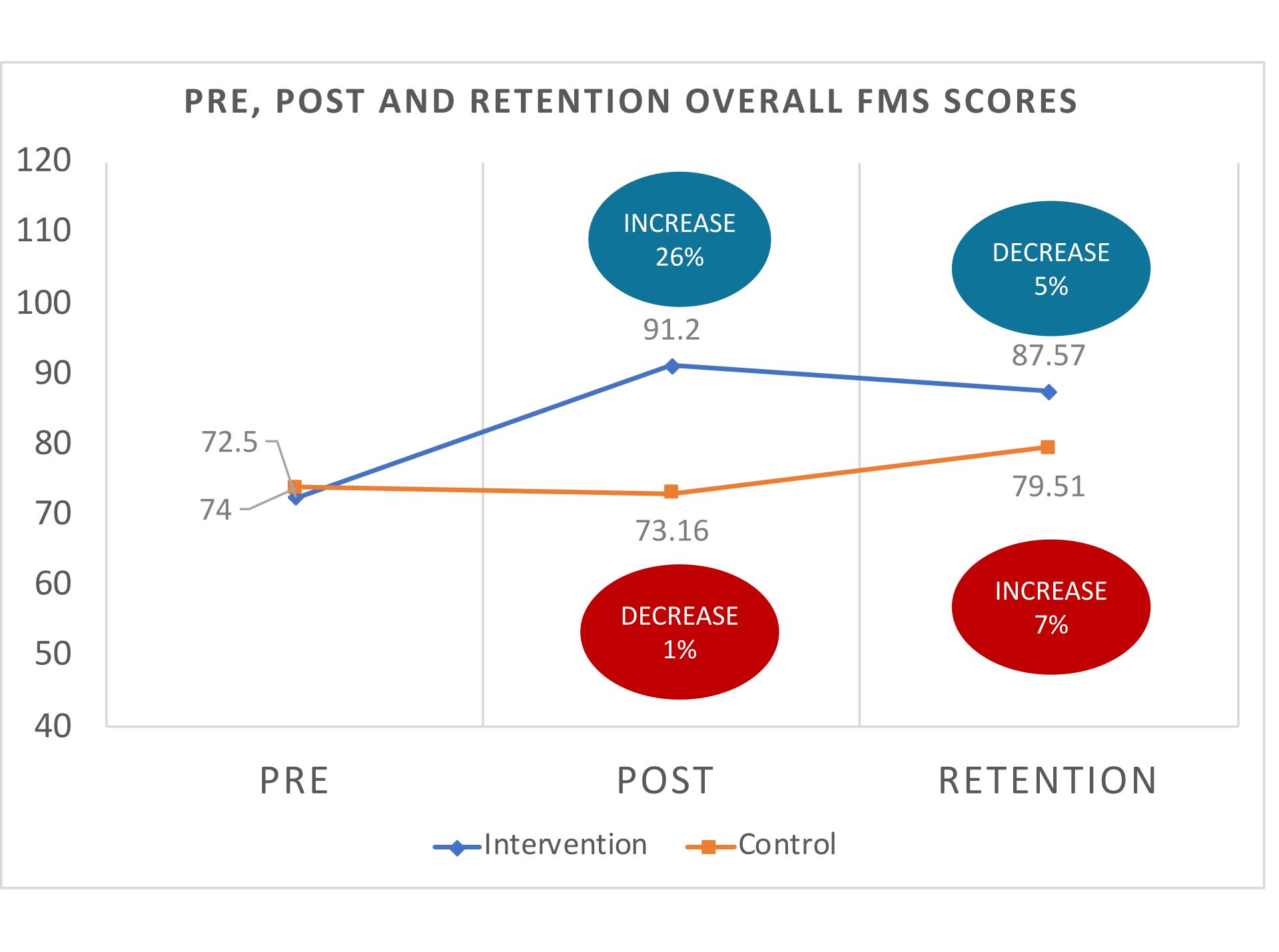
Active learning in classroom

5 minutes every day

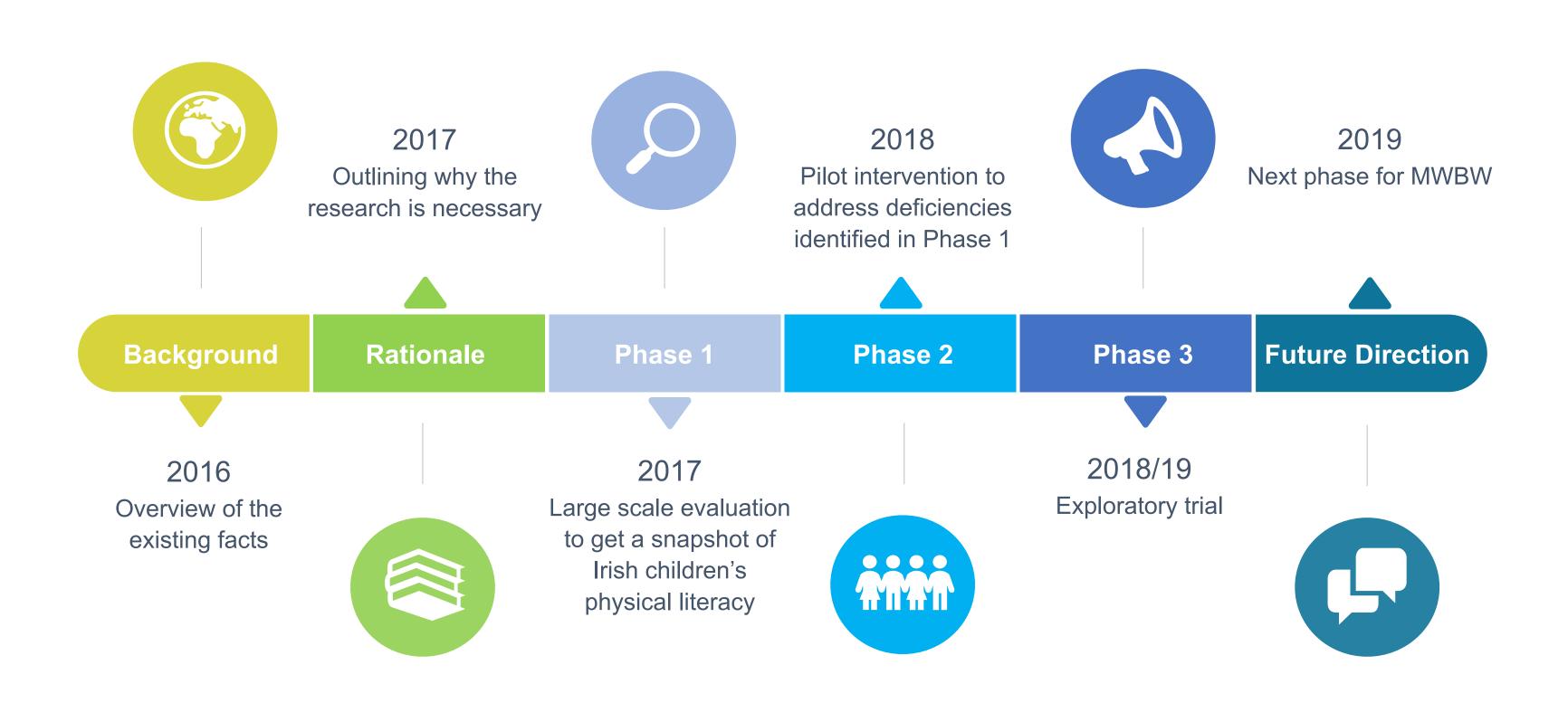
Skills and activity complexity gradually increases



Home activity once a week
Worksheet to be completed with parent/guardian
Activity and knowledge components



#### THE STORY SO FAR



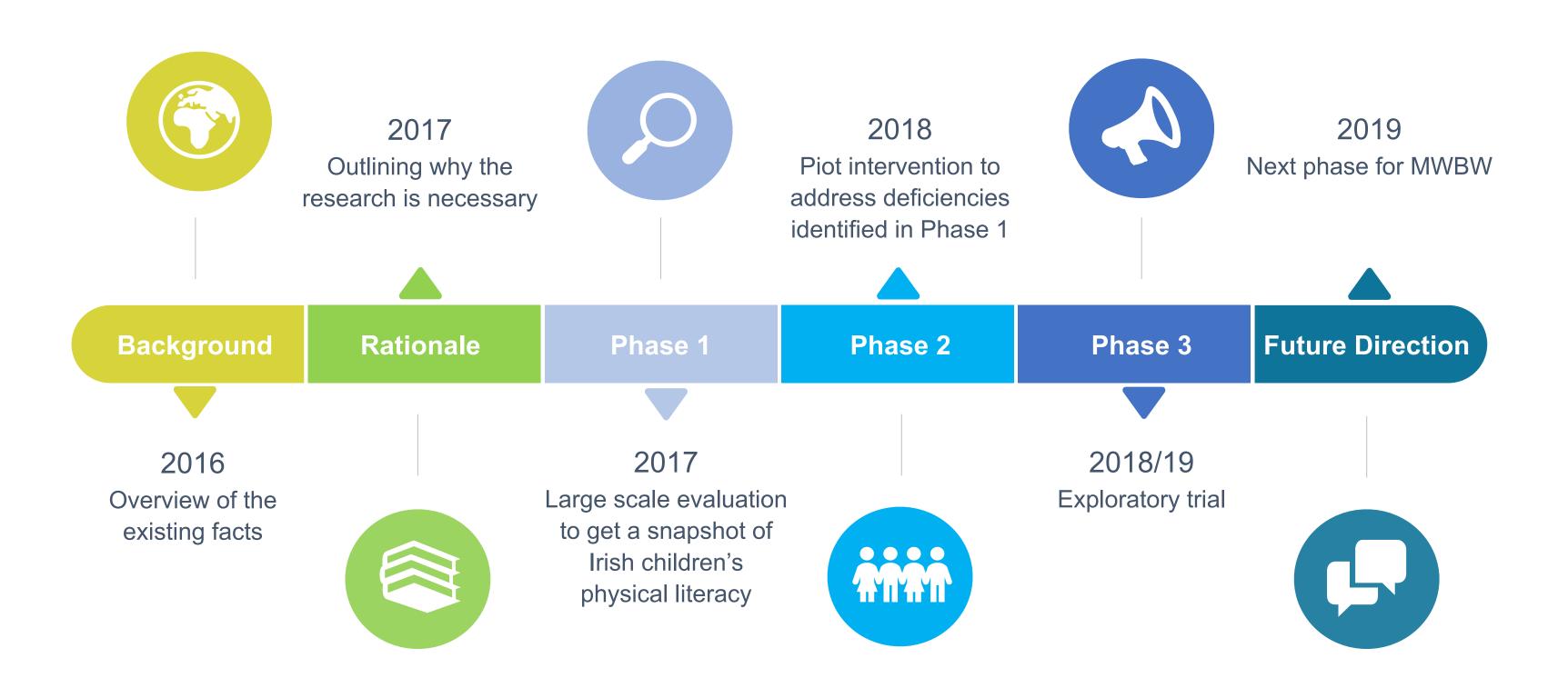


## Phase 3 – Exploratory Trial

Currently ongoing

Approx 1000 children receiving the intervention at present through Dublin GAA coaches

CPD for Dublin GAA coaches





# Moving Well-Being Well Getting Ireland's Children Moving

**Stephen Behan - PhD Candidate** 

stephen.behan@dcu.ie @behan\_s

Supervisors: Dr. Johann Issartel, Dr. Sarahjane Belton & Prof. Noel O'Connor

School of Health and Human Performance
The Insight Centre of Data Analytics
Dublin City University







