

Moving Well-Being Well Getting Ireland's Children Moving

Stephen Behan - PhD Candidate

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













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



ACTIVE KIDS DO BETTER IN LIFE WHAT THE RESEARCH SHOWS ON THE COMPOUNDING BENEFITS

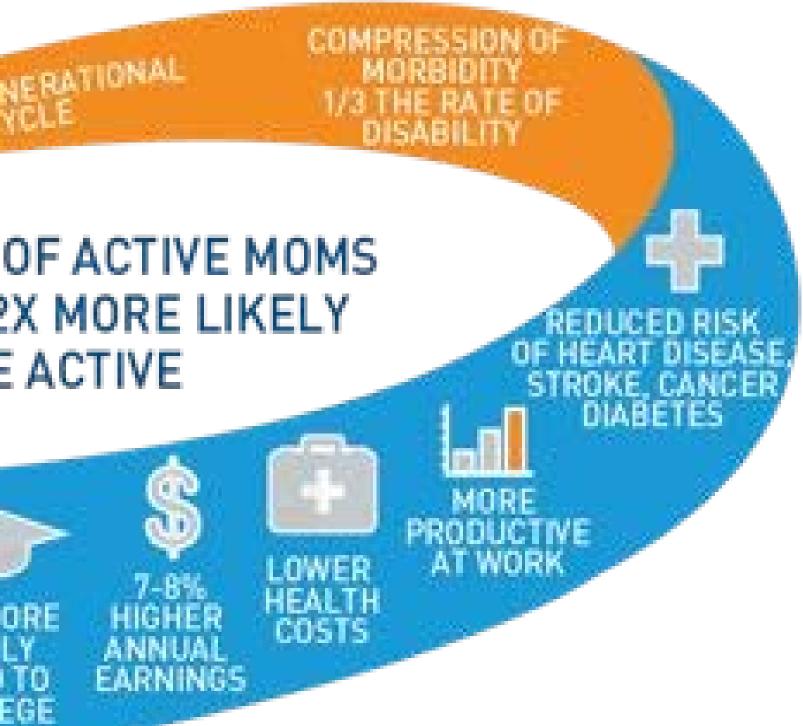
ACTIVE PARENTS ASSOCIATED WITH ACTIVE KIDS

KIDS OF ACTIVE MOMS ARE 2X MORE LIKELY TO BE ACTIVE



EARLY CHILDHOOD

ADOLESCENCE





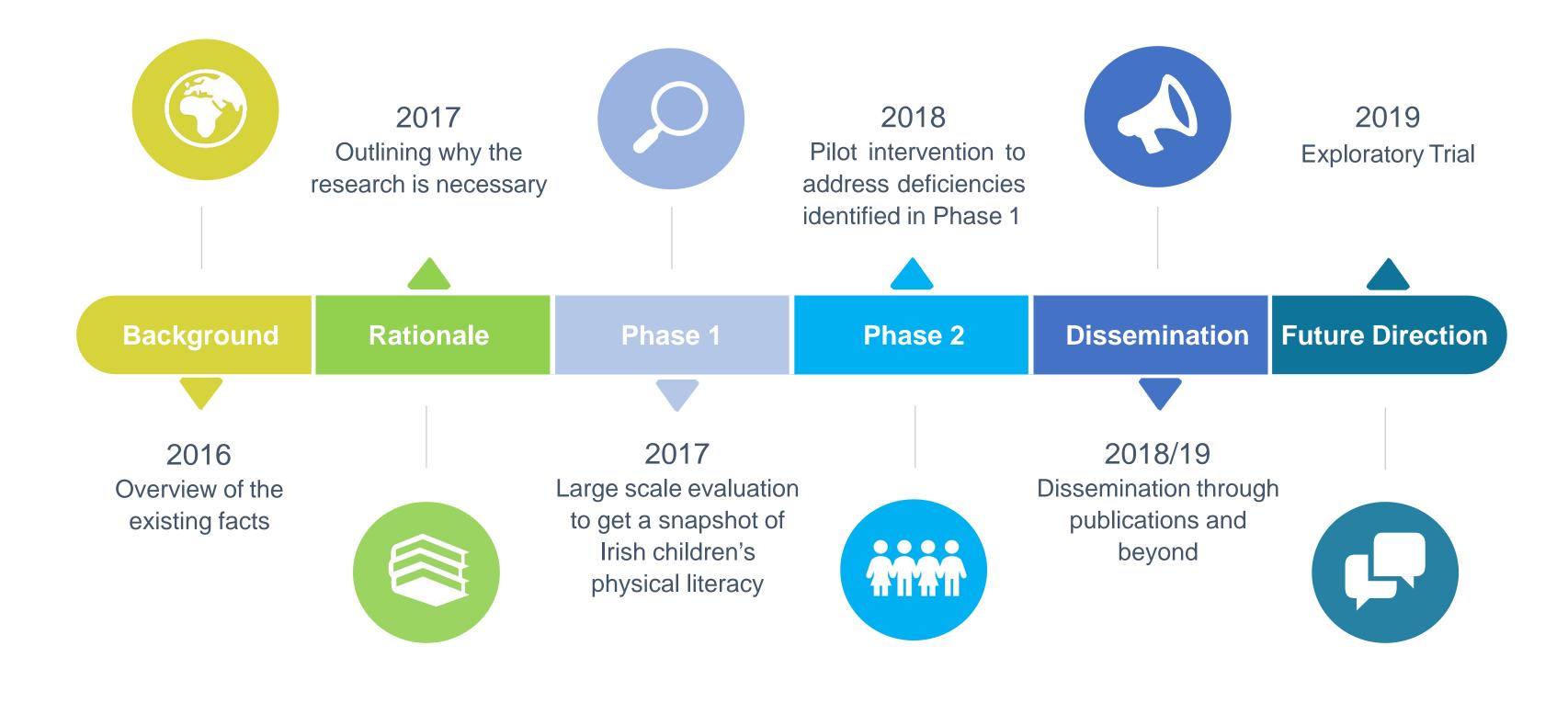




Lots of initiatives to promote physical activity.....

It's not working









What motivates children to be physically active?

Motivation & Confidence

Knowledge & Understanding

Physical Competence

Physical Literacy

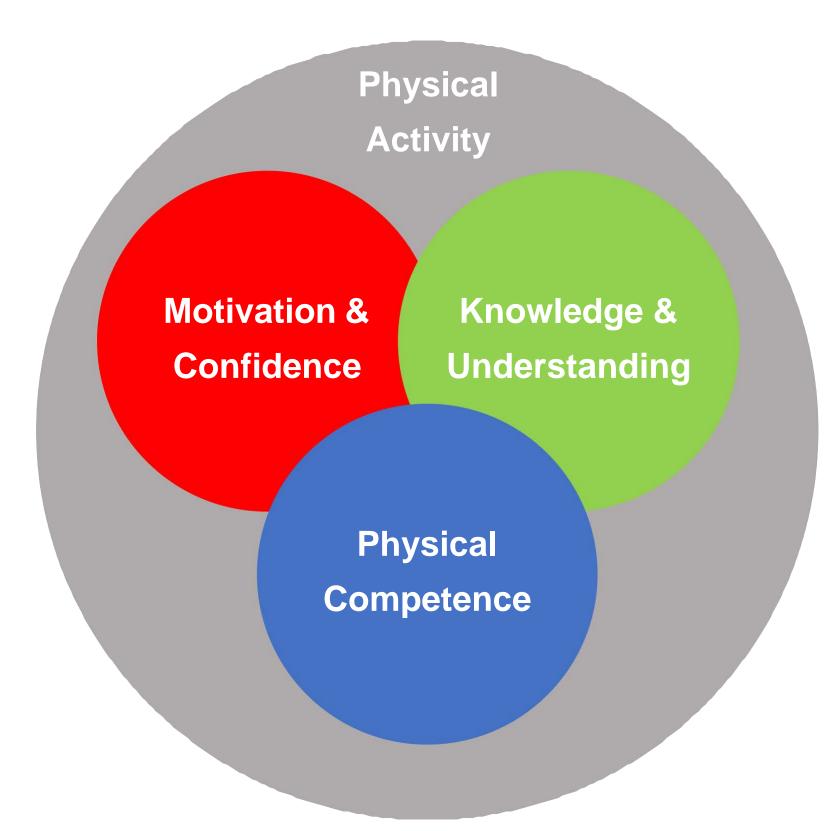
Physical Activity

Motivation & Confidence

Knowledge & Understanding

Physical Competence

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 International Physical Literacy Association, May 2014



Rationale

A lack of research in Ireland

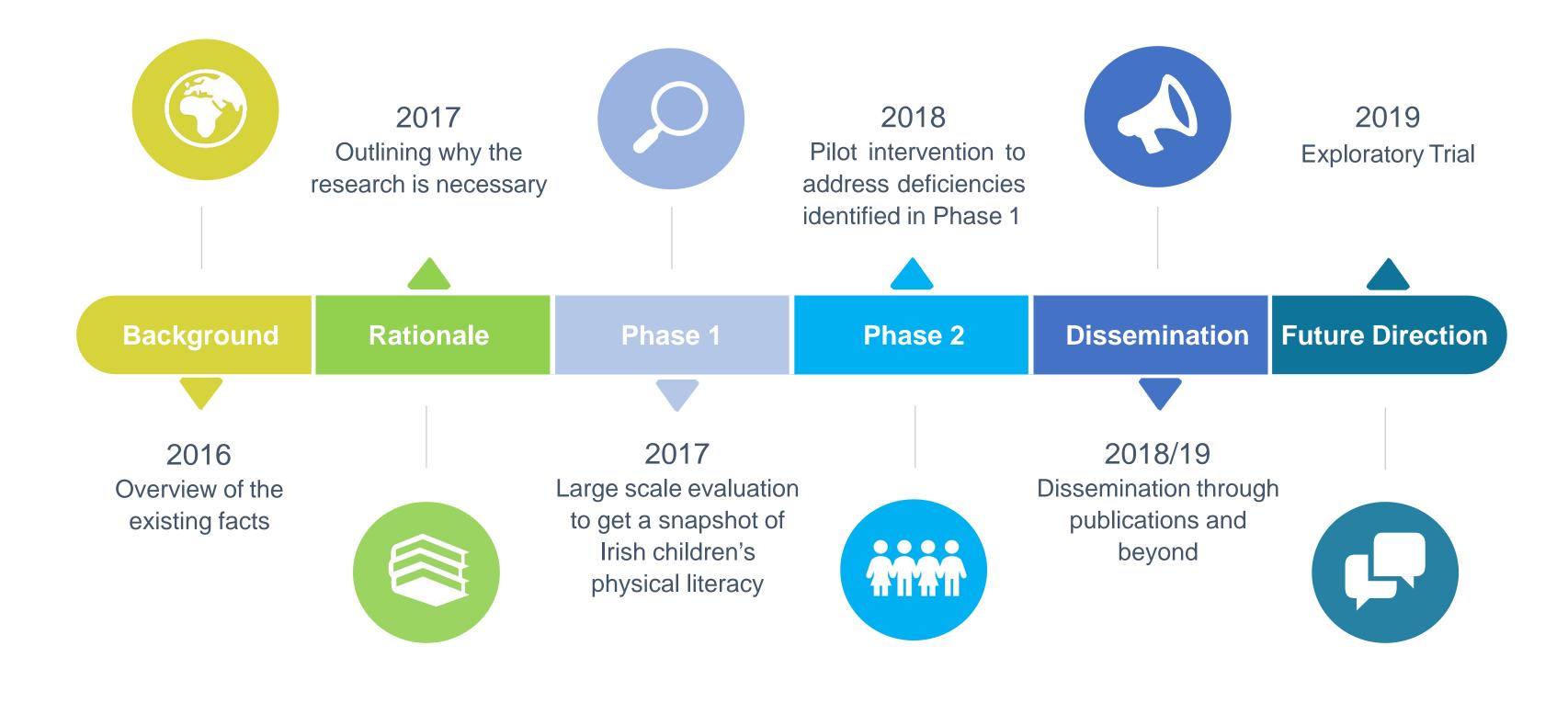
Canada

USA

Some small studies

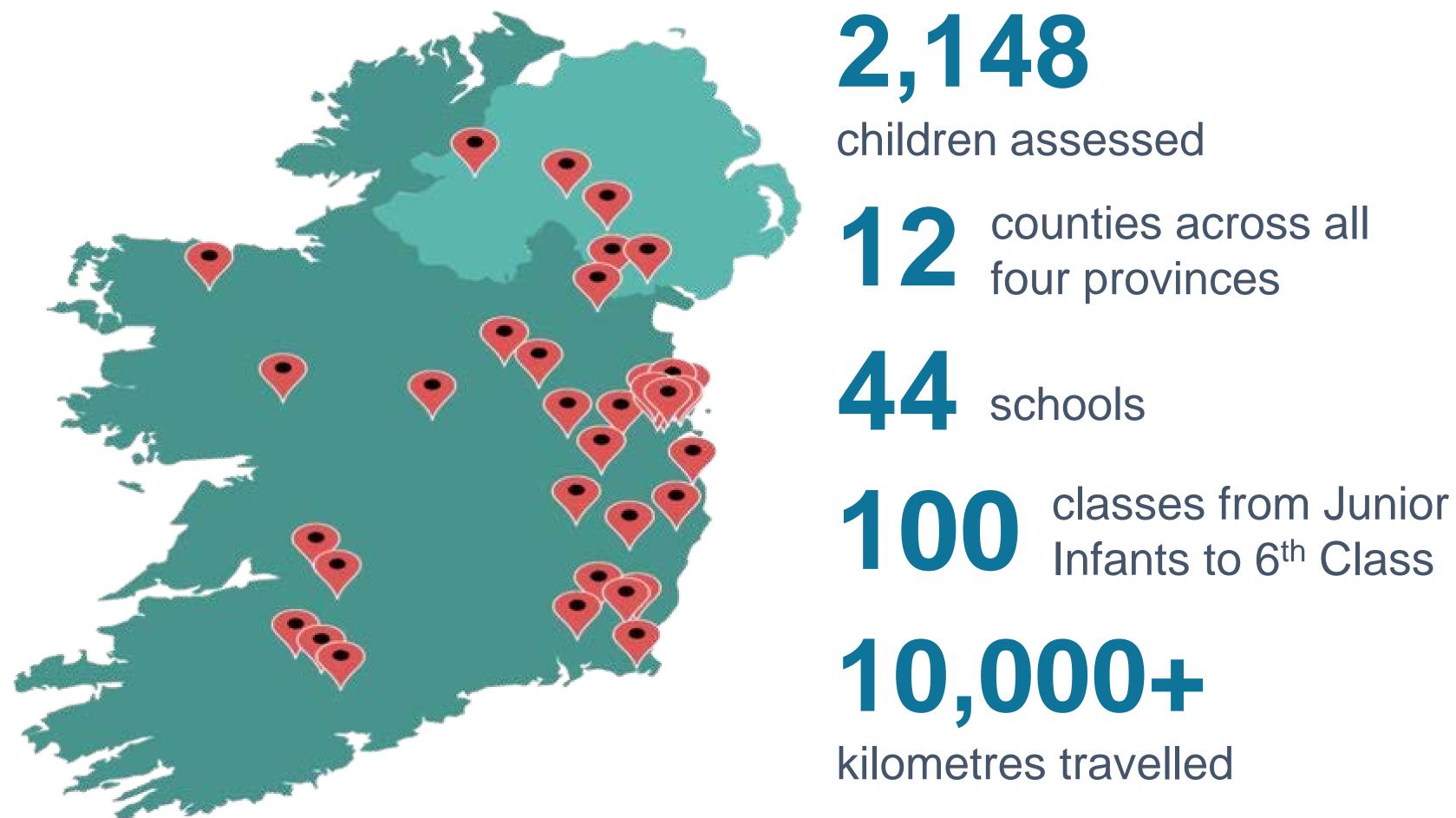
Need Irish context















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)

All validated instruments for measurement <

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

Parents questionnaire

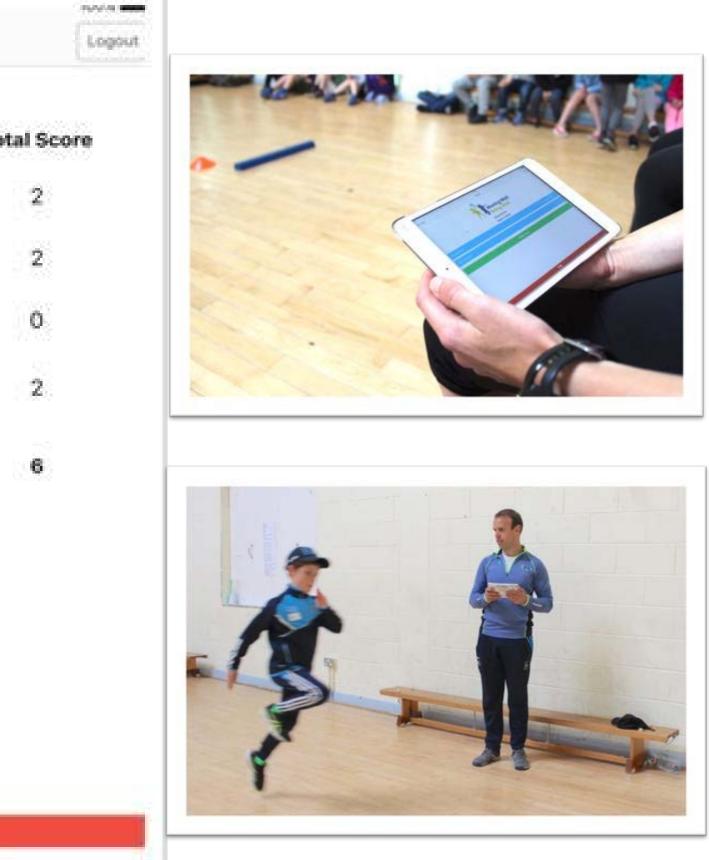


Phase 1 - Data Collection

How we measured:

Back	Skill			
Skill:Run (ABSENT	Counter:1/3	30	
Criteria		Trial 1	Trial 2	То
Arms move in opposition to legs, elbow	/s bent			
Brief period where both feet are off the	surface			
Narrow foot placement landing on heel footed)	s or toes (not flat			
Non-support leg bent about 90 degree to their buttocks	is so foot is close			
			Total Score	

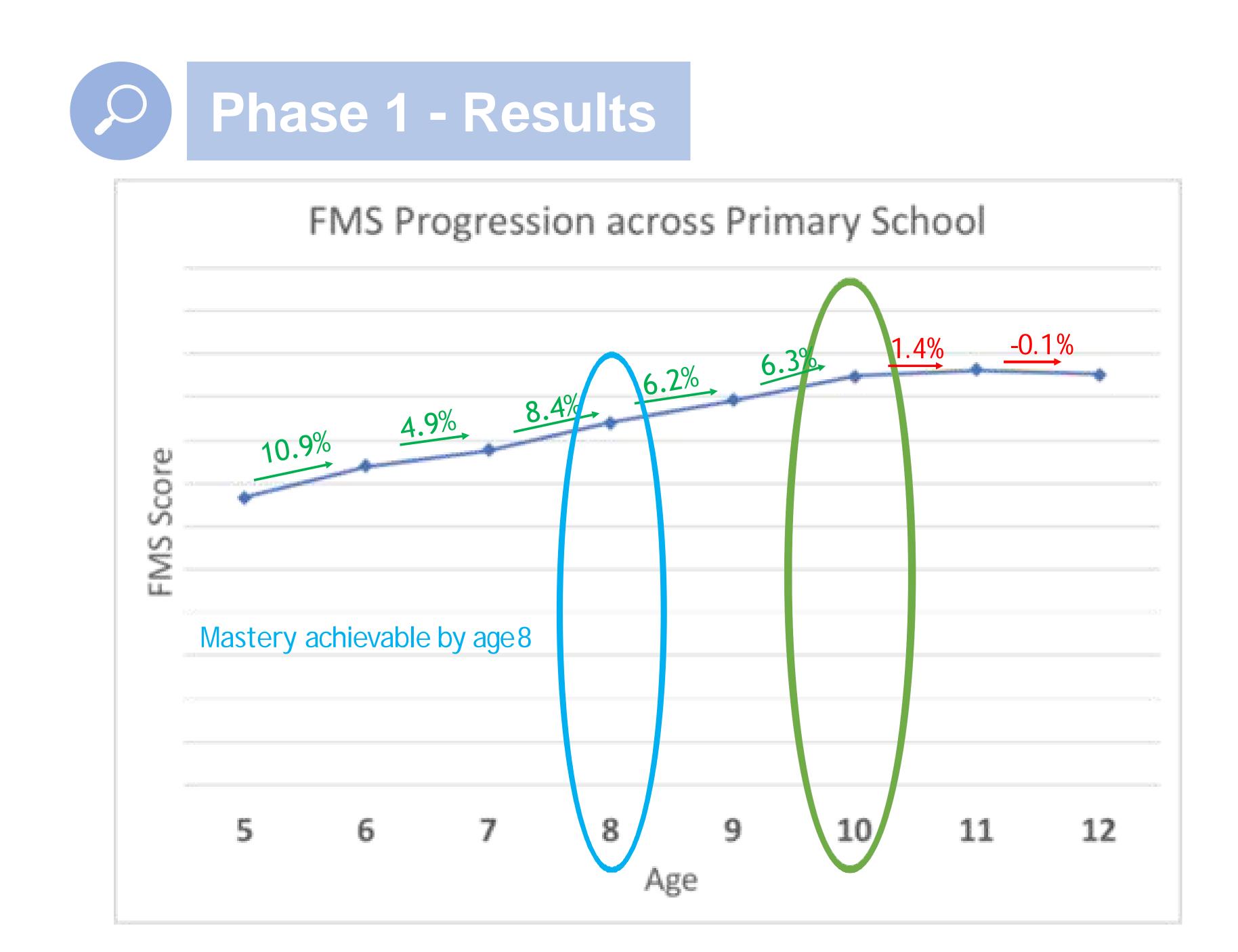




Fundamental Movement Skills

The foundational movements needed to progress to the more specialised and complex skills used in play, games and specific sports





Phase 1 – Motivation Results

Intrinsic

- We dobecause 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

- We dobecause we have to
- Outside force exerted





Identified

Introjected

Intrinsic

Not significant in either male or female participants



Intrinsic

Introjected

Identified

Only significant for male participants



Intrinsic

Identified

Introjected

Only significant for male participants

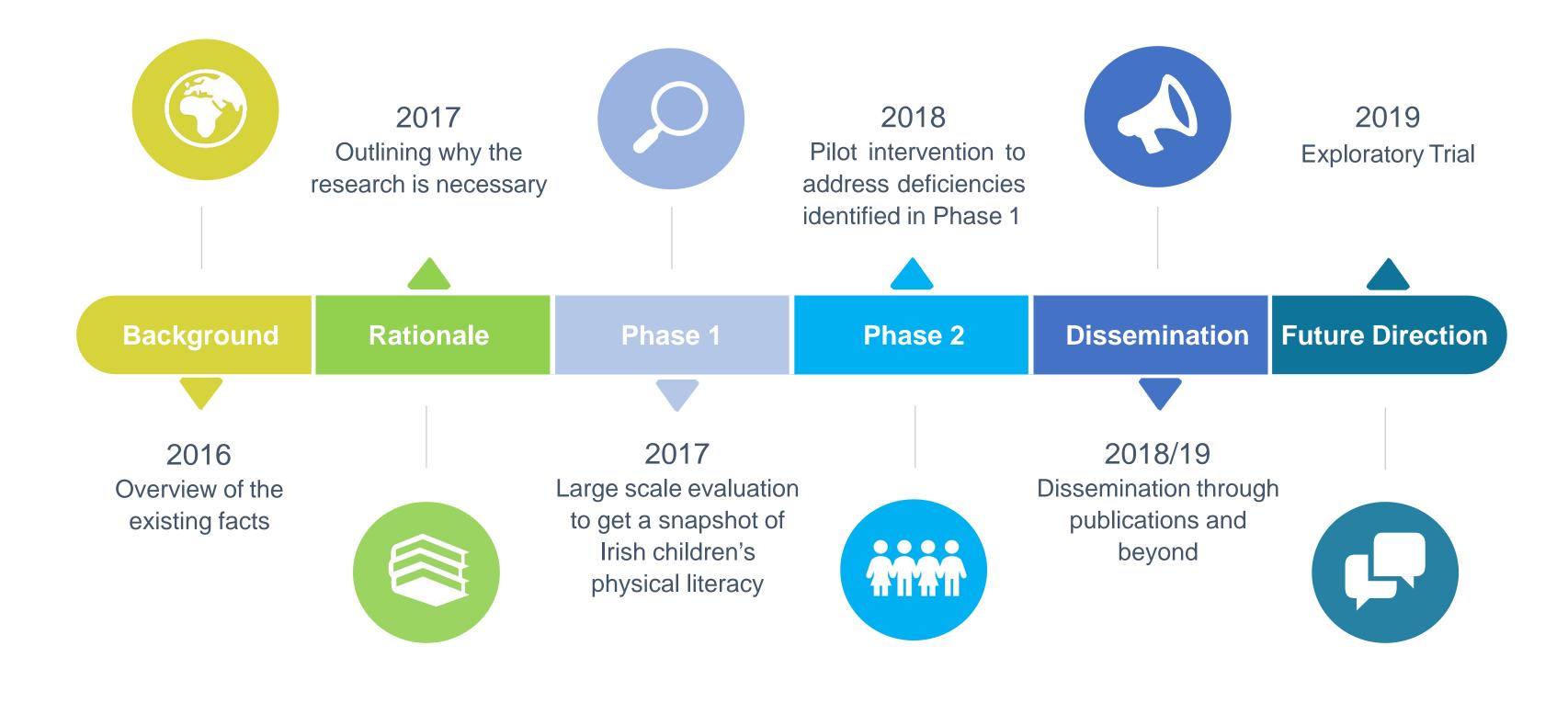




Identified Intrinsic Introjected

External

Significant for both male and female participants





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

LITTERBUG

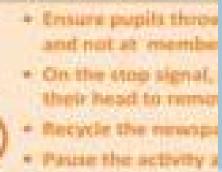
Description of Activity

Arrange pupils in two groups. chalk markings on the ground old newspaper to scrunch up i throw the paper balls out of th continue throwing for a set pe of time, throwing back the newspaper that lands on their of the line. The winning group the group that has fewer pape balls in their area at the end.

Reset the activity again, dividir evenly to both groups. For the up and throw the paper ball, k the throwing hand to practise

Variations

- · Use soft balls or beanbags in
- Divide the playing area in ha games.
- Arrange the pupils in four gr into four grids, with one gro Play four groups against eacl



throwing in the less allow the pupils to the activity. Provide throwing during the



roinnte i ndå ghröpa ama + ag saitheamh -



Lesson Notes:

What went well:

What didn't work so well:

Targets for next lesson

9 MINS

w by stepping with t object multiple

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Phase 2 – Pilot Intervention

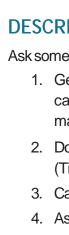




8 Home Activity worksheets

Teacher to distribute once a week

Children to complete with their parents





Fun

She also does push-ups and sit-ups that make her____



ACTIVITY - THROWING

DESCRIPTION OF ACTIVITY

Ask someone at home to join in

1. Get any ball and throw it against a wall. (Top tip: If you can't find a ball, roll up a pair of socks and use them! Just make sure they are clean and not smelly!!)

2. Do you bring your arm backwards first to help you throw? (Tip: look at the picture for help!)

3. Can you throw with your other hand? Does it feel different?

4. Ask someone to throw with you. Who can throw it the furthest

5. Can you think up a throwing game? Play for 1 minute with someone

BRAINY BITS

Good	Stronger	

This story about Sally is missing some words.

Fill in the missing words below.

Each word can only be used to fill one blank space in the story.

Sally tries to be active every day.

Running every day is good for her heart and lungs.

Sally thinks that physical activity is____ and is also for her.





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Fun Good Stronger

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5. Can you think up a throwing game? Play for 1 minute with someone



Fun Stronger Good

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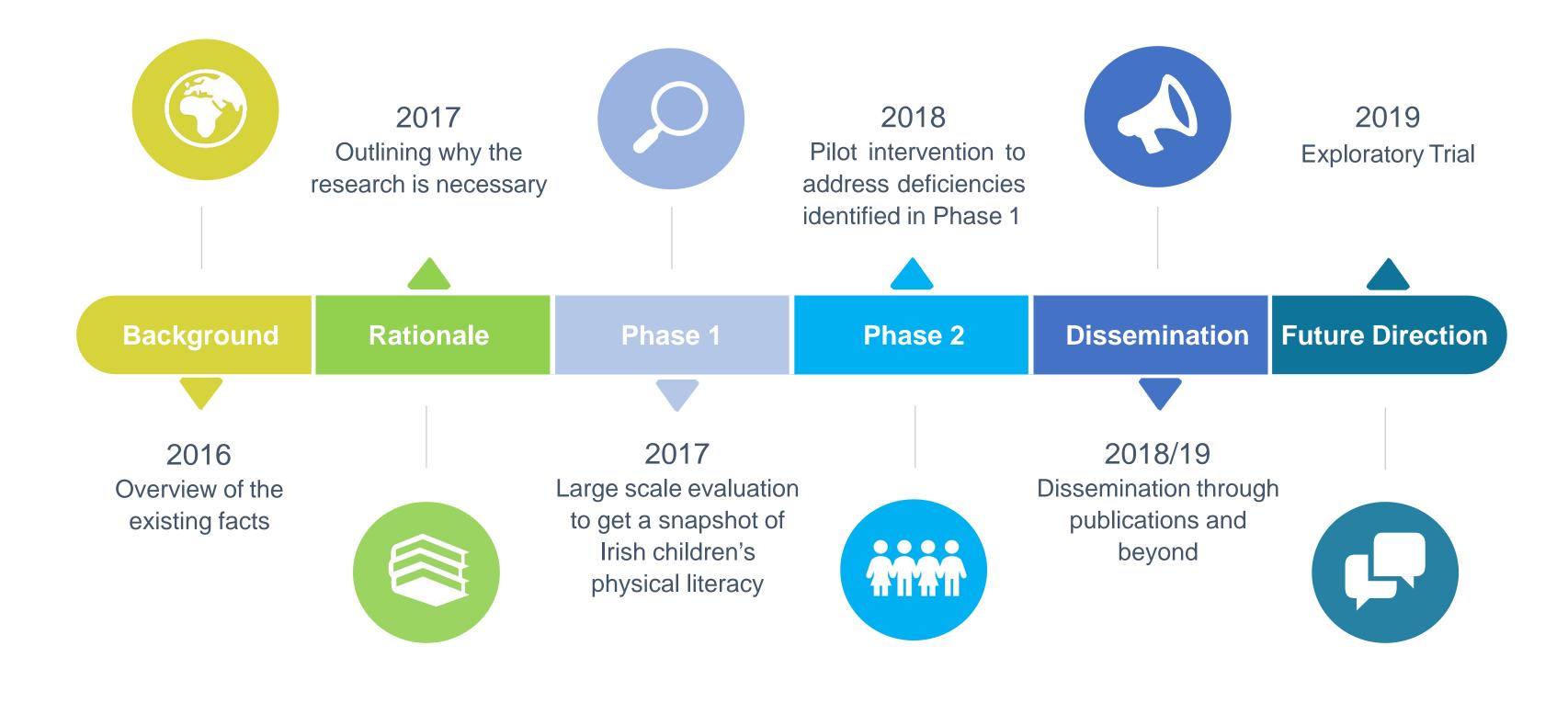
She also does push-ups and sit-ups that make her_____.





_for her.



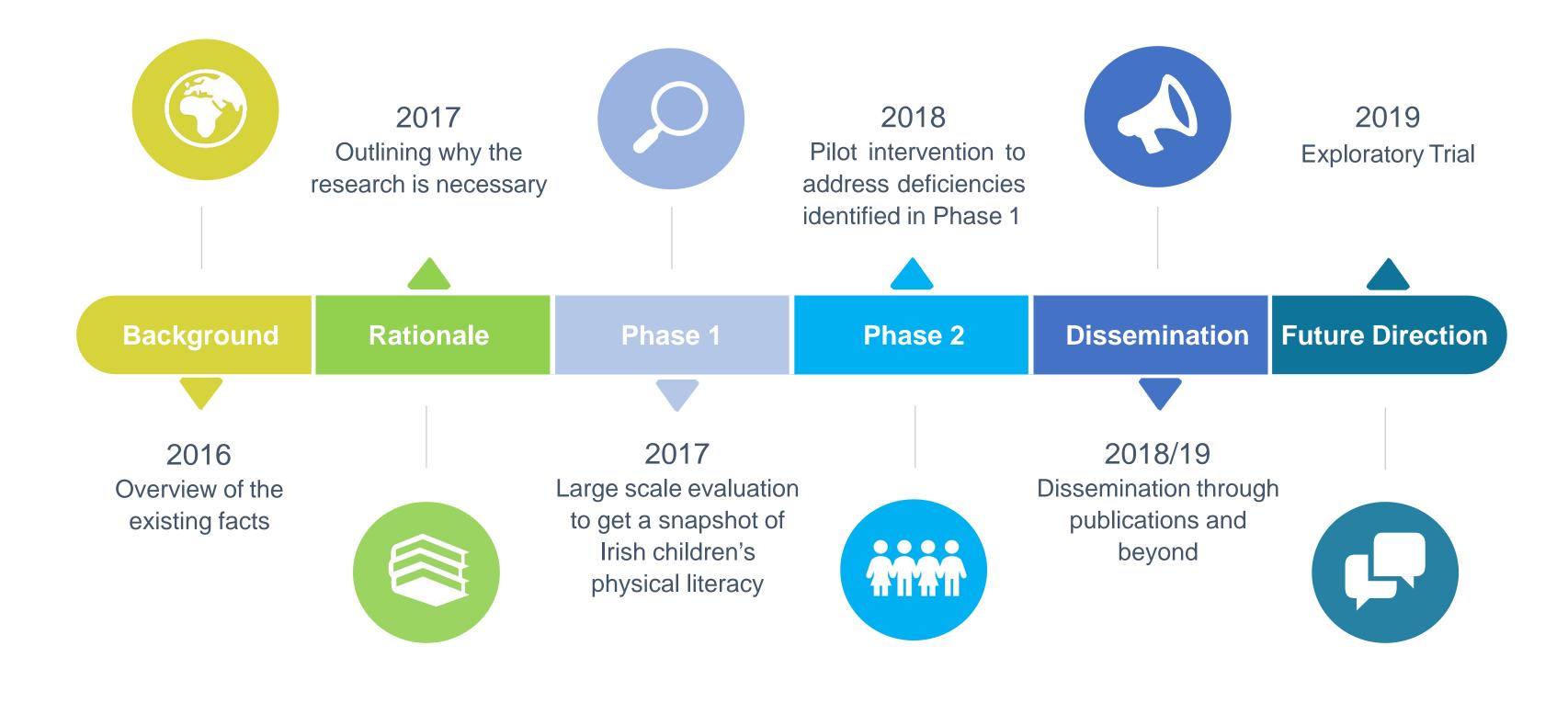






Exploratory Trial just completed – 1,000 kids Large emphasis on teacher and child's experience

Next Step is a nationwide Randomised Control Trial Aim to include approx 10,000 children





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The School of Health and Human Performance **The Insight Centre for Data Analytics**









