Putting Evidence to Work A School's Guide to Implementation



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Putting Evidence to Work – A School's Guide to Implementation

Prof. Jonathan Sharples, Education Endowment Foundation

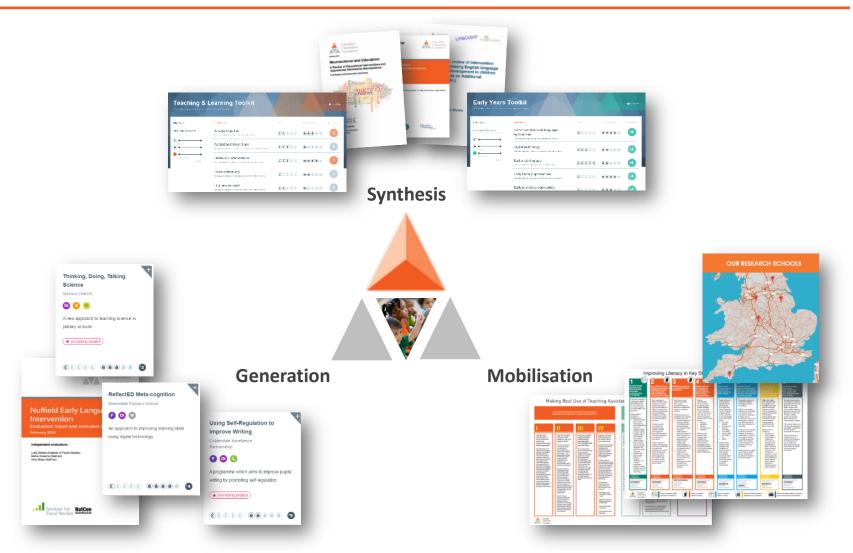
Ice breaker



How confident do you feel applying implementation research to your day-to-day work?

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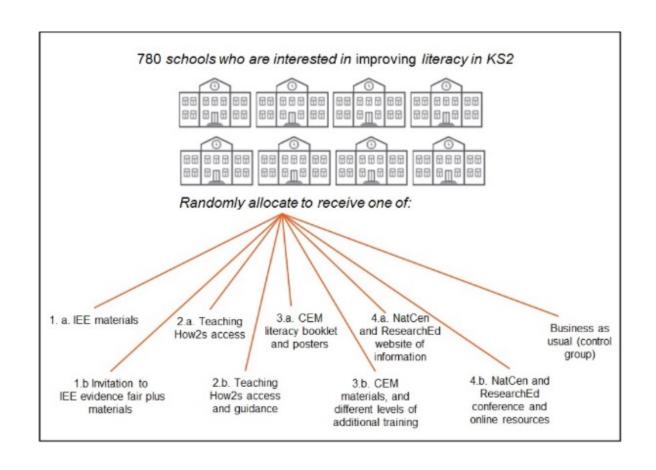




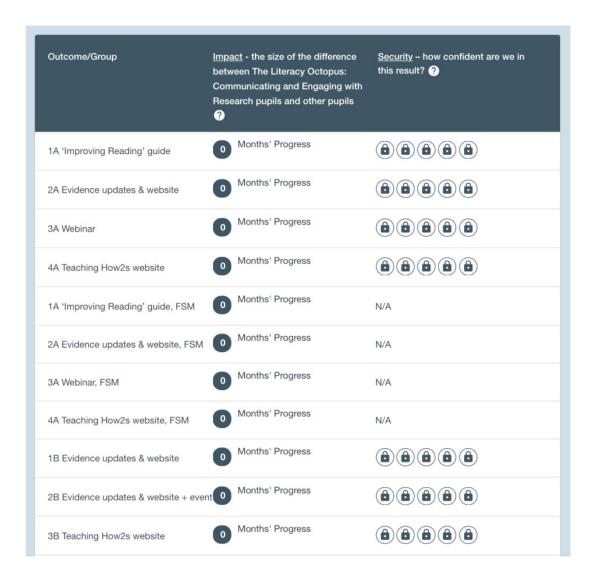
The 'Literacy Octopus' project



Two multi-armed Randomised Controlled Trials (RCTs) investigating different approaches to communicating and engaging schools with research on primary literacy



No impacts on any measure across both arms of every intervention!



Engagement does not equal use!

Why implementation in education?



"The amount of preparation required for introducing the interventions is a common issue that occurs across **all** programmes."

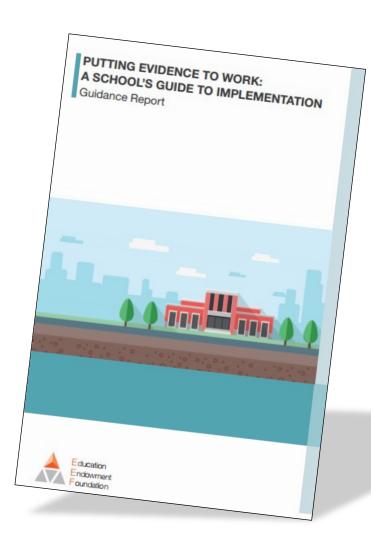
"Where there are problems of implementation these often appear to be **linked to a lack of shared**understanding among senior leaders and teachers of what is involved.

Dr. Jake Anders, University College London

"There are indications that provision may be more effective when there is an emphasis on **how to** implement change within schools."



Prof. Bronwen Maxwell, Sheffield Hallam University



Making, and acting on, evidence-informed decisions

- Identifying priorities;
- Selecting the right approaches to implement;
- Judging fit and feasibility;
- Writing implementation plans;
- Designing professional development;
- Monitoring implementation;
- Developing an improvement culture etc.



What have I learnt?



Implementation...

.... is lots of small things done well – 'uncommon common sense'

.... is rare – vision> shared vision> shared practice

.... is often about making implicit actions and processes explicit

.... isn't sexy! (Sir Kevan Collins)

"It doesn't matter how great an educational idea or intervention is in principle; what really matters is how it manifests itself in the day-to-day work of people in schools – the practitioner IS the intervention!"



Exercise: Implementation Card Sort

- a) Divide the cards into two lists:
 Features of effective vs less effective implementation
- b) Reflect on how these statements relate to your work. How prevalent are these features?

We decide on a few clear choices and pursue them diligently	We assume that staff know how to implement changes effectively	We take on multiple (>5) implementation projects simultaneously
New initiatives are based on robust evidence of what has and hasn't worked before	Less effective strategies are stopped to free up time and resources	Having made a decision to implement something we deliver it quickly, without fully preparing
An implementation plan is written, but tends to sit on the shelf	There isn't a culture of quality improvement – staff feel pressured to get it right immediately	Communication about the innovation and change happens on a regular basis
Implementation problems are identified and acted on quickly	Initial training is reinforced with follow-on support from expert coaches and mentors	No contingency plans are put in place for unexpected changes



Putting Evidence to Work: A School's Guide to Implementation – Recommendations Summary

FOUNDATIONS FOR GOOD IMPLEMENTATION



Treat implementation as a process, not an event; plan and execute it in stages.

 Allow enough time for effective implementation, particularly in the preparation stage; prioritise appropriately.



Create a leadership environment and school climate that is conducive to good implementation.

- Set the stage for implementation through school policies, routines, and practices
- Identify and cultivate leaders of implementation throughout the school.
- Build leadership capacity through implementation teams



EXPLORE

- Define the problem you want to solve and identify appropriate programmes or practices to implement.
- Specify a tight area of focus for improvement that is amenable to change.
- Determine a programme of activity based on existing evidence of what has – and hasn't – worked before.
- Examine the fit and feasibility of possible interventions to the school context.
- Make an adoption decision.



PREPARE

- Create a clear implementation plan, judge the readiness of the school to deliver that plan, then prepare staff and resources.
- Develop a clear, logical, and well-specified implementation plan:
 - a Specify the active ingredients of the intervention clearly: know where to be 'tight' and where to be 'loose'.
 - Develop a targeted, yet multi-stranded, package of implementation strategies.
 - Define clear implementation outcomes and monitor them using robust and pragmatic measures.
- Thoroughly assess the degree to which the school is ready to implement the innovation.
- Once ready to implement an intervention, practically prepare for its use:
 - a Create a shared understanding of the implementation process and provide appropriate support and incentives.
 - b Introduce new skills, knowledge, and strategies with explicit up-front training.
 - c Prepare the implementation infrastructure.



DELIVER

- 5 Support staff, monitor progress, solve problems, and adapt strategies as the approach is used for the first time.
- Adopt a flexible and motivating leadership approach during the initial attempts at implementation.
- Reinforce initial training with follow-on coaching within the school.
- Use highly skilled coaches.
- Complement expert coaching and mentoring with structured peer-to-peer collaboration.
- Use implementation data to actively tailor and improve the approach.
- Make thoughtful adaptations only when the active ingredients are securely understood and implemented.



SUSTAIN

- Plan for sustaining and scaling an intervention from the outset and continuously acknowledge and nurture its use.
- Plan for sustaining and scaling an innovation from the outset.
- Treat scale-up as a new implementation process.
- Ensure the implementation data remains fit for purpose.
- Continuously acknowledge, support, and reward good implementation practices.

IMPLEMENTATION PROCESS BEGINS

Continuously acknow support and reward implementation pract

Plan for sustaining and scaling the intervention from the outset

STABLE USE **OF APPROACH**

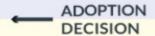
Use implementation data to drive faithful adoption and intelligent adaption

> Reinforce initial train with follow-on supp within the school

ity that is Treat s implem leadership approach infrastructure

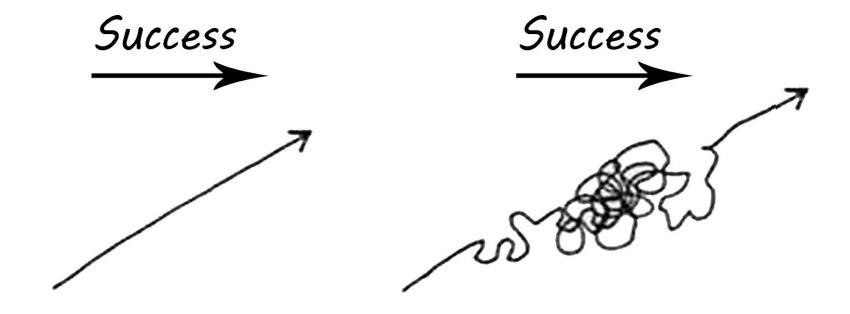
ematically explore grammes or practices nplement

> Examine the fit and feasibility with the school context



Develop a clear, logical and well specified plan

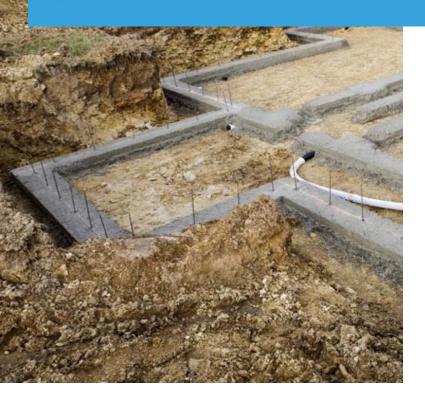
ess the readiness of school to deliver the blementation plan



what people think it looks like

what it really looks like

Treat implementation as a process, not an event; plan and execute it in stages.



- Treat implementation as a process with multiple stages – not an event...
- Allow enough time for implementation, particularly before 'Delivery': 2+ years expected for complex whole-school initiatives
- Do fewer things better organisations tend to take on too many projects (and underestimate the implementation requirements)
- Decide what you can **stop** doing to make room de-implementation

2 Create a leadership environment and school climate that is conducive to good implementation.

"If not present already, an 'implementation friendly' climate cannot be created overnight."

- a) Leaders set the stage for effective or ineffective implementation
- Establish a clear vision for implementation and standards of excellence (underpinned by policies and systems)
- Model best implementation practice
 - 'walk the walk'
- Create an environment of openness, trust, safe experimentation, collective efficacy

"Culture eats strategy for breakfast"

2 Create a leadership environment and school climate that is conducive to good implementation.



b) Identify and cultivate leaders of implementation

- Cultivate distributed leadership of implementation
- Explicitly create opportunities for staff to take on implementation leadership responsibilities
- Acknowledge behaviours and attitudes that support good implementation.

2 Create a leadership environment and school climate that is conducive to good implementation.



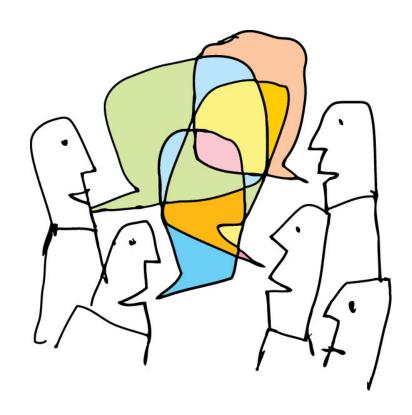
c) Build leadership capacity through implementation teams

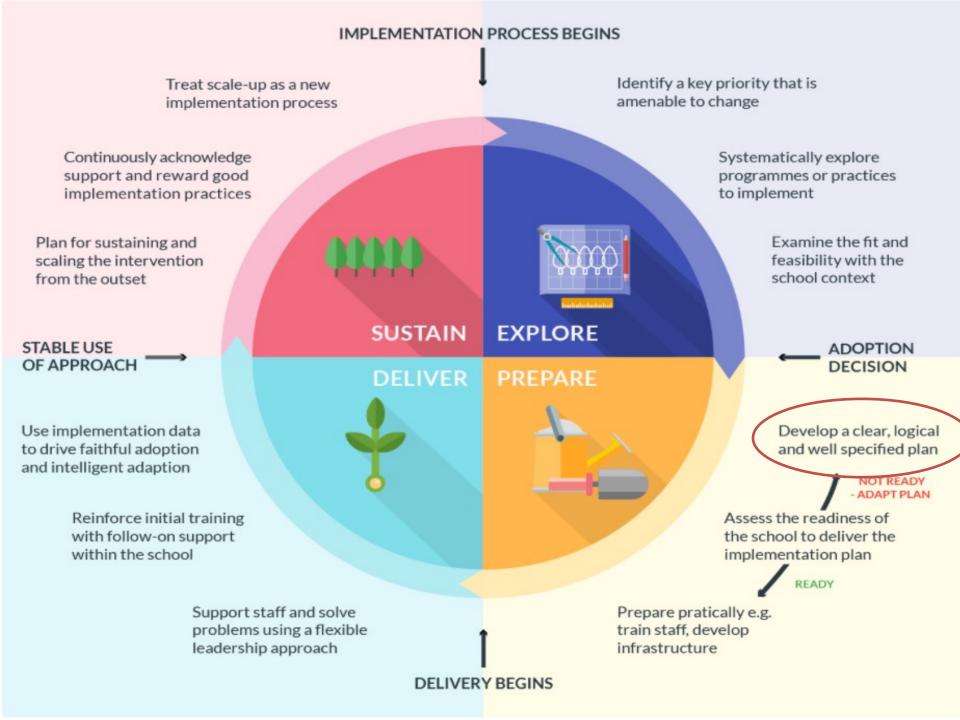
- 3-6 people who turn a plan into reality
- Manage the multiple tasks and factors that make up successful implementation - e.g. creating readiness, building shared understanding, solving problems
- Bring together different types of expertise e.g. implementation ('process') and area of practice ('content')

What about you?



How does this approach compare with your own experience and ideas on school improvement?









"The amount of preparation required for introducing the interventions is a common issue that occurs across **all** programmes."

"Where there are problems of implementation these often appear to be linked to a lack of shared understanding among senior leaders and teachers of what is involved.

Dr. Jake Anders, University College London





- a. Create a clear, logical, and well-specified plan. Describe:
- why we are doing this a definition of the problem
- what the intervention entails the active ingredients/core components
- how it will be implemented the implementation activities
- a means of knowing how well implementation is going the implementation outcomes
- and the final intended outcomes (and so?) the overall objectives

The process is more important than the output – social constructivism

5

INTRODUCING KNOWLEDGE ORGANISERS

Durrington High School - Worthing



Problem (why?)

Teachers

- New specifications require decisions about what knowledge to teach in restricted lesson time.
- There is a lack of cohesion and accumulation between knowledge taught at KS3 and KS4.
- There can be a lack of consistency between lessons in the same subjects regarding what knowledge is being taught.
- There can be a lack of challenge in lessons for all or some students.
- Curriculum Teaching Assessment policy has an expectation of explicit vocabulary instruction (of tier 2 and tier 3 vocabulary) in all subjects.

Students

- Students experience different lesson content dependent on teacher.
- Many students are using ineffective revision strategies.
- Students do not have a framework or schema for organising new information.
- There is a lack of automaticity of knowledge making higher-order learning less likely.
- There is a gap in tier 2 and tier 3 vocabulary knowledge between different groups of students (disadvantaged and nondisadvantaged).

Attainment

- Attainment gap evident for disadvantaged students when compared to national and nondisadvantaged students at DHS
- Overall attainment for all students 2017/2018:
- +X.XX P8, XX.X A8
- XX.X% basics 5+
- Attainment for PP students 2017/2018
- -X.XX P8
- XX.X A8 XX.X% basics

Intervention Description (what?)

Active Ingredient 1

Curriculum Planning:

 A knowledge organiser, based on knowledge that will build cultural capital as well as meet specification demands, to be in place for every unit of work in Year 9 and Year 10 for all subjects by September 2018.

Active Ingredient 2

Explicit Vocabulary Instruction:

 All knowledge organisers to include tier 2 and tier 3 vocabulary. This vocabulary is taught explicitly using strategies such as 'STI'.

Active Ingredient 3

Lesson Planning:

 All teachers of the same subject explicitly teach the knowledge on the knowledge organiser and go beyond this as appropriate.

Active Ingredient 4

Assessment & Metacognition:

 Teachers to use knowledge organisers for formative assessment strategies such as quizzing, and students to use knowledge organisers for monitoring of learning, for example through self-quizzing and selfchecking of work.

Implementation Activities (how?)

Mandate change

- Use of CTA policy to declare a knowledge-based curriculum to staff and students.
- Declare knowledge organisers for Year 9 and Year 8 as a whole-school priority from September 2018.

Conduct ongoing training

- Introduction of knowledge organisers at November INSET.
- Share examples from different teachers in January and March INSET
- Refresher for new members of staff in September 2018 INSET.

Coaching/tailor strategies

 T&L senior leaders offer in-school support with production and use of knowledge organisers for individual teams.

Identify and prepare champions

 Identify an individual per curriculum area who motivates colleagues and models effective implementation. These teachers to present at INSETs in 2018/2019 and lead one SPDs per term on the knowledge organiser in use for Year 9 and Year 10.

Develop academic partners

 Partner curriculum leaders and other teachers responsible for creating knowledge organisers with external subject specialists, for example departments in other schools, exam boards or university partners, to help create and moderate KOs

Model change

· Share models of KOs via school VLE.

Monitoring

- Review of KOs a standing agenda item for T&L line management meetings (last fortnight of every term).
- Line managers to review departmental use of knowledge organisers at termly T&L reviews.
- Ongoing discussion and review of KOs at T&L briefings with curriculum leaders.
- Periodic moderation of knowledge organisers by SLT via VLE to ensure fidelity. Actions fed back to line managers.

Implementation Outcomes (how well?)

Short term

Fidelity:

- Production of knowledge organisers for all units in Year 9 and Year 10 from September 2018.
- Knowledge organisers to incorporate knowledge that builds student cultural capital.
- Assessments, including vocabulary assessment, match knowledge on knowledge organisers.
- Curriculum leaders to be accountable for ensuring knowledge organisers are used in their areas.

Reach:

 All teachers using knowledge organisers for Year 9 and Year 10 lessons by September 2018.

Acceptability:

- Staff experience a reduction in time spent on mediumterm and lesson planning for Year 10 and Year 9.
- Clarity about knowledge to be taught in specific units.

Final Outcomes (and so?)

Short term - Year 9 and 10

 Increased understanding of the aims of a knowledge organiser, including an understanding of what is a knowledgebased curriculum.

From September 2018:

- Increased engagement with knowledge organisers as part of lessons and homework.
- Students experience clarity about knowledge they need to know by the end of each unit.

Medium term

Fidelity:

- Knowledge organisers used to plan and review curriculum for Year 9 and Year 10 on an ongoing basis.
- Production of knowledge organisers for all units in Year 11 from December 2018.

Reach:

 All teachers using knowledge organisers for Year 11 teaching and revision materials by January 2019.

Acceptability:

- Staff experience a reduction in time spent on mediumterm and lesson planning for Year 11.
- · Revision sessions and resources are centralised.

Medium term – Year 11 (plus Year 9 and 10)

As above plus:

- All students using knowledge organisers as part of lessons and homework/
- All students using knowledge organisers to self-check their learning, including inclusion of tier 2 and tier 3 vocabulary.
- All students engaging with knowledge organisers as a metacognitive tool to plan, monitor and evaluate their learning.

Long term

Fidelity:

- KOs in place for all year groups by September 2019.
- Knowledge organisers are updated as part of curriculum reviews.

Reach:

 All teachers using knowledge organisers for all year groups.

Long term - All year groups

As above plus:

- All students able to independently plan effective revision sessions using knowledge organisers as a central
- All students experience more accurate self-monitoring of their learning.
- Increased level of progress for disadvantaged students (and other identified in September analysis).



Active Ingredients

'ACTIVE INGREDIENTS' – the essential principles and practices for an intervention, which need to be adopted closely (i.e. with fidelity) to get the intended outcomes

What activities & behaviours will you see when it is working?



Basis for: creating shared understanding; implementation activities; implementation outcomes; fidelity; anchor when it goes pear shaped!

PUTTING EVIDENCE TO WORK: A SCHOOL'S GUIDE TO IMPLEMENTATION

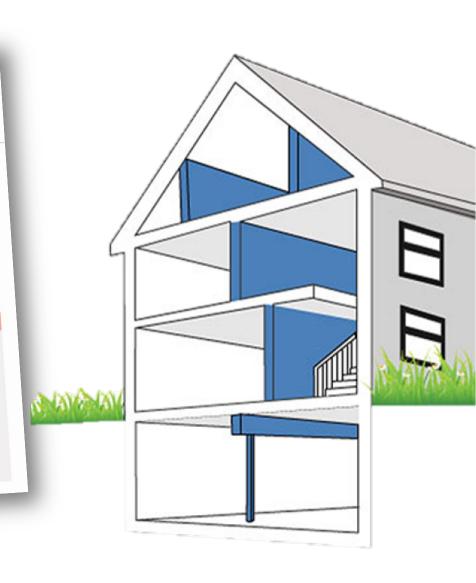


Implementation theme - Active ingredients

In 2018, the EEF published Putting Evidence to Work: A School's Guide to Implementation—a guide for schools on how to implement their plans and interventions with the best chance of success. The guide is designed around a stage-by-stage

This supplementary set of summaries draws together recommendations relating to specific themes across those stages—this one focuses on active ingredients and fidelity. It provides further information on what we mean by 'active ingredients', how to define them, and ways in which they can be used to support implementation. We discuss the importance of fidelity and how to balance fidelity with thoughtful adaptation.

- a. What do we mean by 'active ingredients'?
- b. Real-world examples of active ingredients—outside education
- c. Real-world examples of active ingredients—in education
- d. How do we define the active ingredients for our approach?
- e. Use your active ingredients to anchor the implementation process
- f. Ensure programmes and practices are delivered as intended, i.e. with fidelity
- g. Make thoughtful adaptations only when the active ingredients are securely understood and implemented.

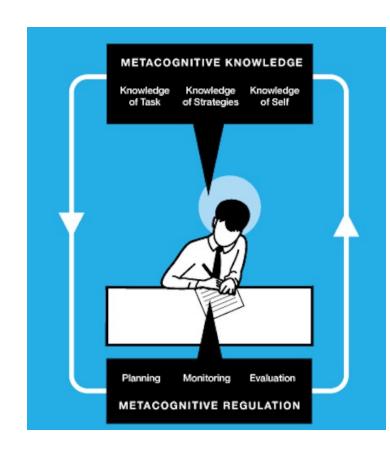


Active ingredients - metacognition



ACTIVE INGREDIENT 1

- Shared mental model
- Staff have a shared understanding of metacognition
- Staff are able to spot opportunities to apply that model in the classroom



When is a bike not a bike?!



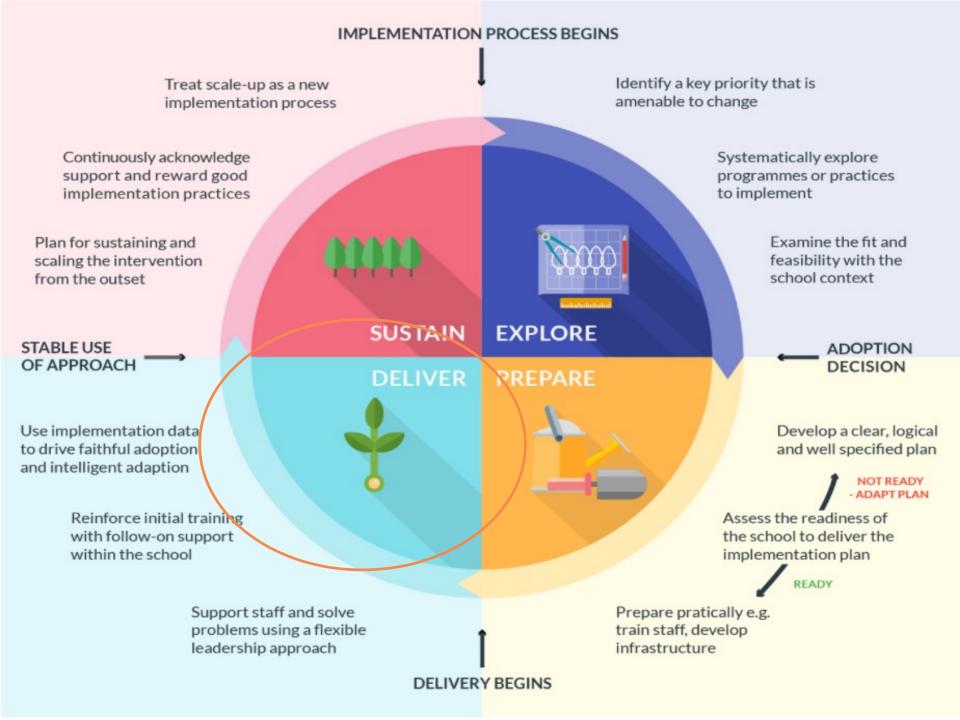
What are the active ingredients of a bicycle?!

"The observable, replicable and irreducible components of an intervention (Michie et al., 2013)."

Faithful adoption vs intelligent adaptation



Is it a bicycle?! Critical adaptation?



This stage is about...

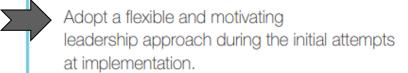
continuous dynamic improvement

- Motivating and modelling
- Identifying and solving problems
- Identifying and using successes
- Helping staff apply their knowledge



DELIVER

Support staff, monitor progress, solve problems, and adapt strategies as the approach is used for the first time.



Reinforce initial training with follow-on coaching within the school.

Use highly skilled coaches.

 Complement expert coaching and mentoring with structured peer-to-peer collaboration.

Use implementation data to actively tailor and improve the approach.

 Make thoughtful adaptations only when the active ingredients are securely understood and implemented.

What are the characteristics of effective professional development?

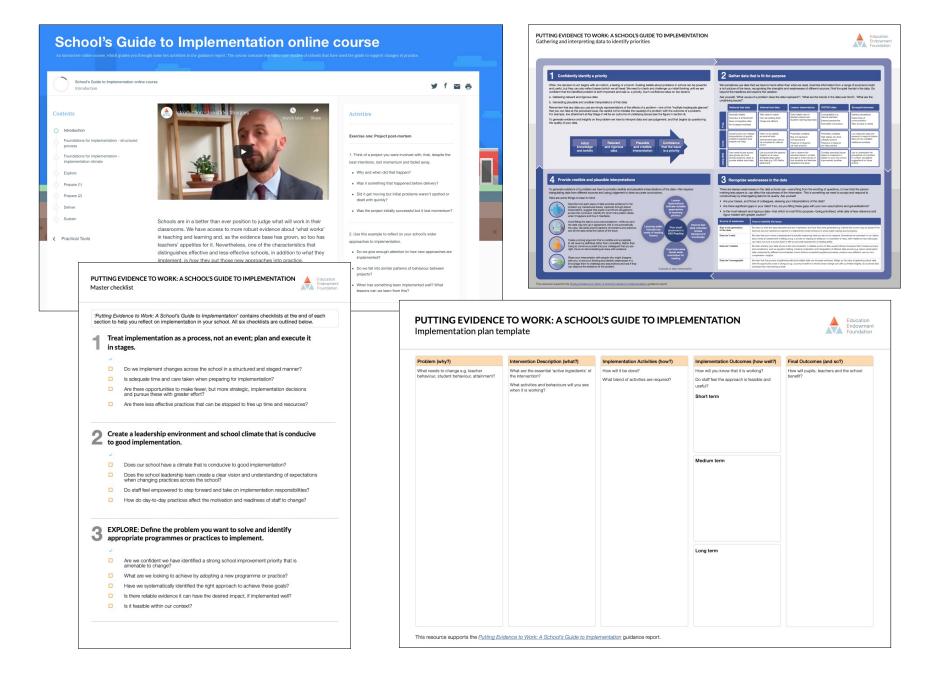


- ✓ Introduce new skills, knowledge and strategies with explicit up-front training
- ✓ Follow-on support e.g. instructional coaching within the school setting, helps apply the skills and knowledge that are introduced in initial training
- ✓ Complement expert coaching and mentoring with structured peer-to-peer collaboration.
- ✓ Ensure there is a rhythm, duration and alignment to professional development activities (don't overwater!)

Key points



- Implementation matters the practitioner is the intervention!
- View implementation as a process not an event
- Implementation needs time, especially for preparation
- Benefits from dedicated but distributed leadership
- Have a clear, logical and well-specified plan
- Specify the elements of the approach that you believe are critical to its success – i.e. the 'active ingredients'
- Treat 'Delivery' as a learning process





Thank you!

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