Embedding evaluation in CPD for effective outcomes and higher impact

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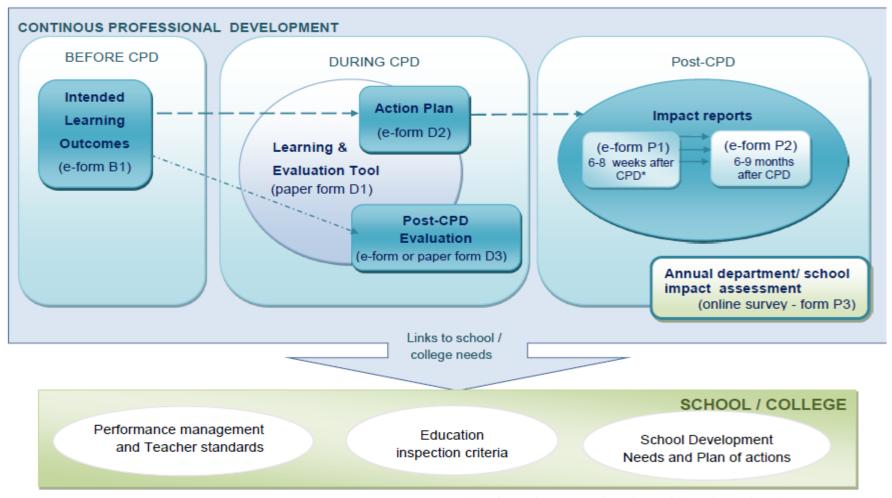
Research principles used in STEM Learning

- 1. Embedding evaluation in professional learning and post CPD actions to scaffold professional learning
- 2. Use of Guskey model of impact levels
 - Level 1 participant's reactions (immediately)
 - Level 2 participants learning from CPD (immediately and after 6-8 weeks)
 - Level 3 organisational support and change (after 6-8 weeks and 6-9 months)
 - Level 4: participants' use of new knowledge and skills (after 6-9 months)
 - Level 5: Student outcomes (after 6-9 months)
- 3. Externally commissioned evaluations



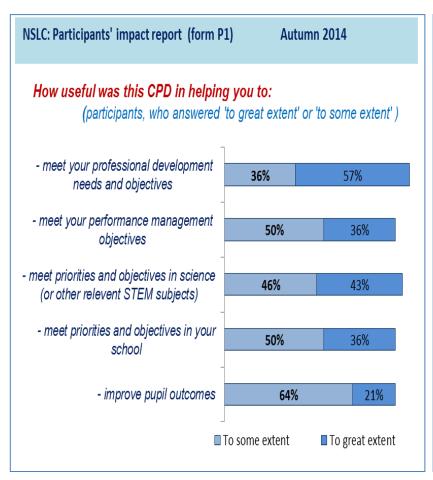
STEM Learning internal model of evaluation

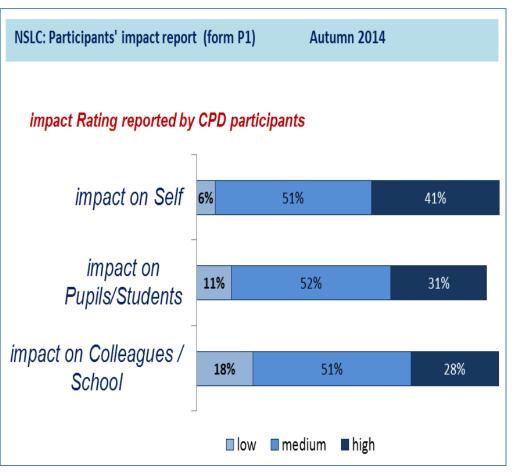
Impact Planning and Evaluation: Process Map for CPD participants



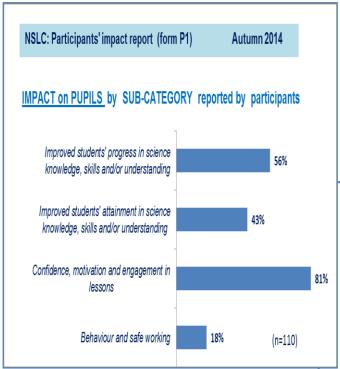
^{*} or during the next residential period for multi-residential courses

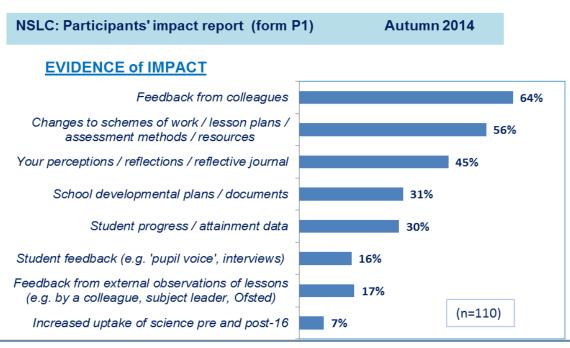
How we report on impact



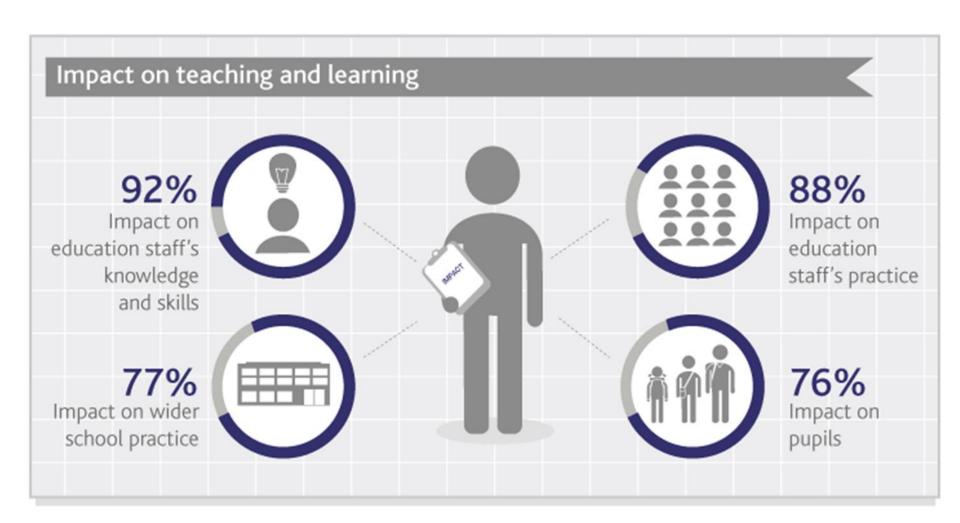












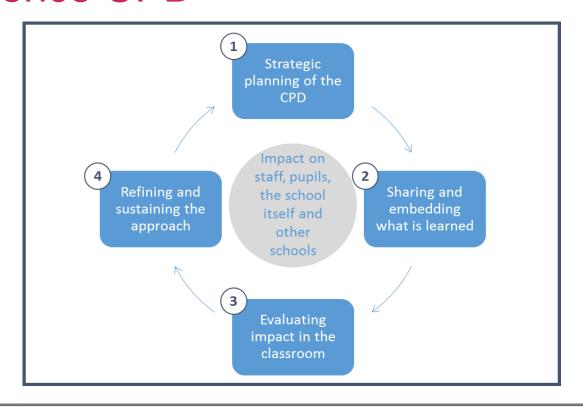


External evaluation of the impact of the National Science Learning Network CPD on schools

Evaluation carried out by Isos Partnership https://www.stem.org.uk/sites/default/files/pages/downloads/Super users evaluation final report.pdf



ISOS partnership model of CPD cycle through which schools maximise the impact of science CPD





Types of CPD users (school-level)



Strong strategic planning that goes beyond the individual and is strongly driven by school / departmental needs Strong support and routine processes for participants to implement, share and embed CPD learning Clear strategy and processes for baselining and tracking most types of impact



Planned user

Well-planned CPD, but largely driven by individual staff needs through a wellrun performance management system Some support to participants to implement and share, mostly semi-formal sharing

Some strategy and processes for tracking impact, some understanding of how this is done



Semiplanned user

Loosely-planned CPD – slightly hit-and-miss in the way appraisal used to generate CPD choices, heavily influenced by "what is in the brochure" Little support to participants, entirely informal sharing

No specific and explicit processes for tracking the impact of CPD, little understanding of how to track impact of CPD



Ad hoc user

Ad hoc planning – no clear rationale or links to annual planning processes

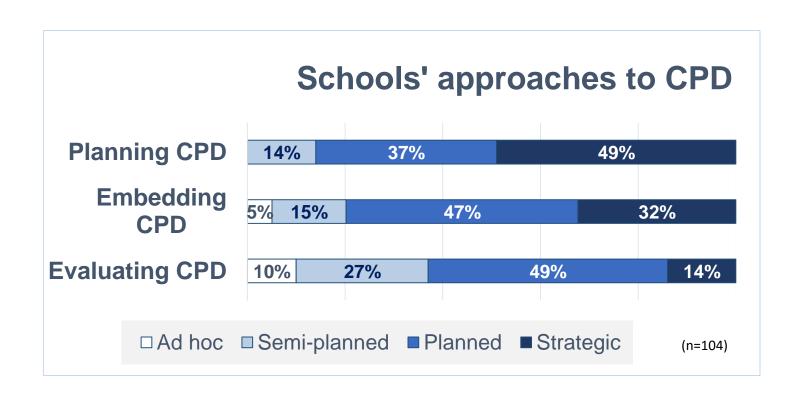
No process for sharing and no explicit support

No strategy, not clear how to track most types of impact

Planning Embedding Evaluating



Isos research findings: super-user schools

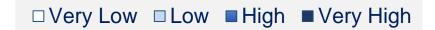




Findings: planning

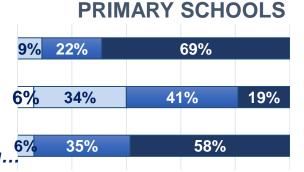
Three criteria:

- How much importance is given to CPD
- How much importance is given to subject-specific CPD
- How clear a school is about why they access particular CPD



How much importance is given to CPD? How much importance is given to science-CPD?

How clear was your school about why you...

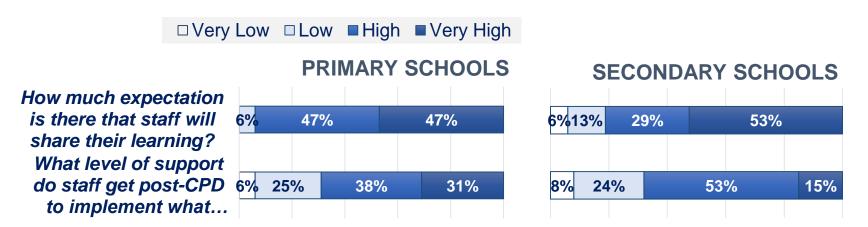


SECONDARY SCHOOLS 4% 47% 49% 4% 24% 42% 31% 6% 18% 38% 38%



Findings: embedding

a significant mismatch between the expectation that staff would share the learning of their CPD and the support that they actually received to do so

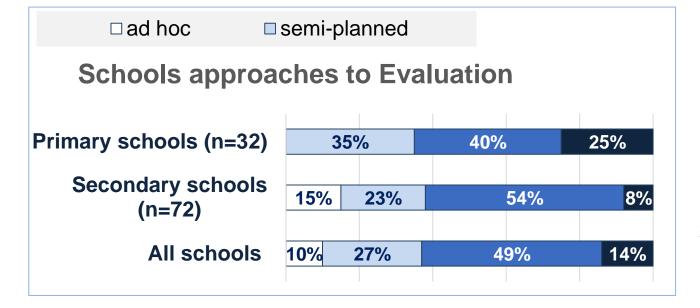


Reasons:

lack of time, competing priorities, and the absence of routines for dissemination + for science subjects – lack of understanding from school SLT about the complexity of teaching sciences



Findings: evaluating



More 'strategic users' among primaries than secondaries

- Lack of confidence about how to track the impact of specific CPD (especially on student learning)
- Low priority to the evaluation of impact
- Part of bigger picture of the absence of evidence-based approach to T&L



Characteristics of strategic users of CPD

Planning

- Establishing clear priorities to guide CPD, informed by frank self-evaluation
- Pro-active planning, aligning school, subject and staff development priorities
- Identifying the right people to champion and lead CPD learning in school

Embedding

- Giving staff encouragement and time to implement CPD learning in their classroom
- Regular routines for structured, practical sharing of learning with colleagues
- Supporting staff to embed CPD learning in their planning and practice

Evaluating

- Being clear, in advance, about the difference you expect from the CPD
- Is practice changing? Seeing first-hand the difference in the classroom
- Using a range of measures to judge the impact on pupils' learning and engagement

Sustaining

- Using regular planning cycles to refine and improve new ideas and practice
- Turning CPD champions into leaders to embed and improve teaching and learning
- Celebrating and showcasing success within and beyond the school



Recommendations for CPD participants, school leaders, CPD providers

School and subject leaders

Teachers and technicians

CPD providers in the Network

Planning

Develop a clear plan for CPD, informed by honest self-evaluation and pick the right people to enthuse others.

Choose CPD that aligns your own professional development and the school's or department's strategic priorities – be selective.

Target the CPD offer at specific stages in a school's journey, and at particular stages in the development of teacher, technician or leader.

Embedding

Create regular opportunities not only to share, but to embed, CPD and support staff to plan and implement this in the classroom.

Set a target to achieve within a week of the CPD, including how you will influence at least one colleague's classroom practice.

Ensure CPD activities focus not only on what the participant will do differently, but on how they can support colleagues to do the same.

Evaluating

Be clear, in advance, about the difference you want to see from the CPD, how you will know, and then track impact in the classroom. Be clear, in advance, about the difference you expect to see in your classroom – establish a baseline and check for improvements. Continue to embed within CPD activities strategies for identifying evidence of impact of CPD on teaching and learning.

Sustaining

Celebrate success and create a cycle of continually evaluating and improving practice to foster a learning culture in your school.

Seek out opportunities to report on effective new practices to colleagues, leaders, governors and peers in other schools.

Foster subject-specific collaboration between schools through Science Learning Partnerships and cluster-based approaches.

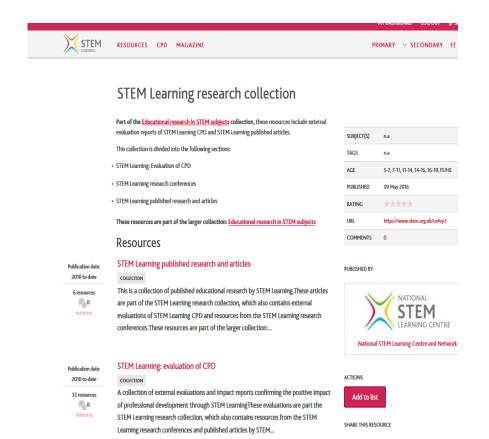
Discussion

- How could this model of "strategic users" be useful to schools to improve the impact of their CPD in STEM subjects or in general?
- What implications does it have for you in your work in/with schools?



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