Landscape Performance Series Case Studies

Recipient: Landscape Architecture Foundation

Grant: \$75,000 PI: David R. Smith

Completion: 2018
Project Summary: 13

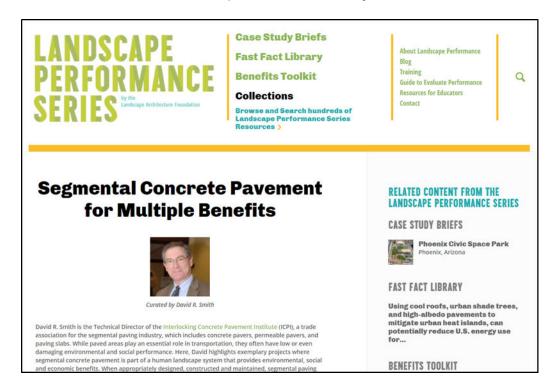


Background and Need

The Landscape Architecture Foundation maintains a website with tools and models that assist practicing landscape architects in measuring economic, environmental and social performance of landscape systems. In addition, the LA Foundation maintains a growing stable of project case studies demonstration how landscape performance is measured.

Objectives

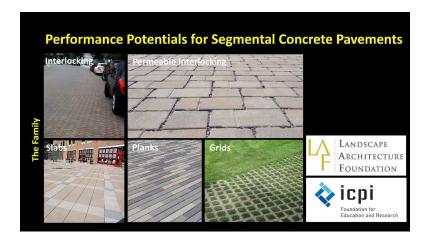
Segmental concrete paving is a well-used landscape system as evidenced by its presence in many case studies on the Landscape Performance Series website. The first grant objective included curation (collection and commentary) by ICPI of ten case studies on performance of projects using ICP and PICP. This was completed in 2017 and joined other curated collections.



The second objective was development, presentation, and housing of a one-hour February 27, 2018 webinar on the LA Foundation website. Developed by the ICPI Foundation, the training presentation covers how to measure the performance of segmental concrete paving. The webinar uses The Sustainable SITES® Initiative evaluation system to measure economic, environmental and social performance of the family of segmental concrete paving systems. The family evaluated includes:

Interlocking concrete pavement;

- Permeable interlocking concrete pavement;
- Segmental concrete paving slabs;
- Planks (linear paving units); and
- Concrete grid pavements.



Outcomes

The 47-slide presentation (title slide shown above) uses various projects in the U.S. and Canada to demonstrate how segmental concrete paving measurably enhanced landscape performance. Learning objectives include:

- Understand the economic inputs & outputs for life-cycle cost analysis for pavements
- Use analysis tools & performance criteria from SITES® v2 to evaluate environmental & social performance of segmental concrete pavements
- Underscore the growing importance of life cycle analysis of environmental impacts from pavements
- Review assembly options for segmental concrete pavement

The last bullet consists of slides that summarize assembly selection and vehicular performance limits to assist in successful applications for each type of system. The presentation earns one credit hour of professional development from the Continuing Education System managed by the American Society of Landscape Architects.