# Innovation and Business Improvement at Balfour Beatty

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#### ldea owner:



Name: Matthew Twiss

Role: Agent

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Project: A46

Client: Highways Agency

#### Who is involved:

Division: Balfour Beatty CSUK

Business Unit / Opco: Major Projects

Nottingham Geography:

Sector: Civil Engineering





### **Case study summary:**

Salix C125 & C350 Erosion Control Matting Name:

(What is it called?)

Case study type:

Lean / Good Practice

(Lean / Good practice / Innovation?)

Description:

(What is it and why was it needed? What does it do? How does it improve current practice?)

C125 and C350 are a non-permanent and permanent form of erosion control matting which are composed of a high-strength, threedimensional matting structure, incorporated with a 100% coconut-fibre matrix that supplements the permanent matting structure's grass germination and erosion control capabilities for up to 36 months. The material protects seeding from being washed away and the earthworks outline of the ditch from erosion and damage during the interim period of growth whilst restricting weed establishment.

The material is staked into position using wooded pegs allowing for a completely biodegradable structure if this is required in a non-permanent function or adequate time for establishment of vegetation to hold permanent matting in place.

The material improves on current systems in use on Highways Projects as they either offer little in the way of seed protection during establishment or can result in weed growth dislodging the matting from beneath. These unique systems allow vegetation to be used in areas where forces exerted by water exceed the sheer limits of unreinforced vegetation allowing applications where rock rip-rap, articulated concrete blocks and hard lining were once the only suitable alternatives to erosion control.

## **Applications:**

(How does it work? Ideas for application elsewhere i.e. if applicable to any other function or business unit)

The product is designed to provide long-term, vegetated erosion protection and permanent turf reinforcement in applications that include critical-flow channels, spillways, stream banks, and shorelines.

## **Recognition and rewards:** (What prizes, awards grants or publicity has

this received?)

#### **Benefits:**

	Zero Harm	Time	Reduce Cost	Quality	Sustainability	Increase Revenue
То ВВ	Light weight easy to handle installation	75% quicker to install than hard lining techniques	Alternative to expensive hard lining	Protects seeding and outline from erosion	Coir matting 100% biodegradable	
To client		Faster construction - lower costs	Lower construction costs	Excellent seed success rate and permanent liner	A green alternative to hard lining	
To industry / society					Renewable source of materials	

Other benefits