

Handout Sheet 1

This CREST-accredited project can be put towards achieving a CREST Bronze Award



HS2 Design Vision

Background

As part of this project you will be designing a new railway station for your local area. We have created this information sheet to help you to apply HS2's core design principles to your station design.

People

Designing for the needs of diverse audiences

Train stations are used by everyone; people of all ages, ethnicities, racial and cultural backgrounds, faiths, religions, genders and people with disabilities. Think about how you can make your station work for everyone.

- Gender-neutral and wheelchair accessible toilets mean that everyone is included and can use the station conveniences.
- Make sure there is a wide range of food available for all diets, including vegan, halal, kosher, gluten-free and lactose-free foods.
- Make sure that all areas of your station are accessible to wheelchair users.
- Present travel information so that everyone can access it, visually, as audio announcements and in different languages.

Engaging with communities

Find out what other local people want from their new station as part of your research. Speak to friends, family or school staff who live locally to find out about their experiences travelling by rail and using stations, and use your research to inform your design thinking.



Figure 1. Talking to local people helps to ensure that the station will meet their needs.

STATIONS OF THE FUTURE (DESIGN & MAKE PROJECT)

Place

Designing places and spaces that support quality of life

How can your station make a positive contribution to the quality of life in your town?

- You could situate your station in a neglected part of your local area to bring new interest and regeneration.
- Think about how you could use the station to provide new public spaces that can be enjoyed by everyone as places to relax, socialise, shop or exercise.

Identity – Celebrating the local within a coherent national narrative

- How can your station celebrate the identity of your local area? Think about your local area's contribution to British culture or its part in British history.
- Perhaps you could name your station after a famous person from your area, or erect a statue in their honour.
- Maybe you could serve local cuisine in your station cafe.
- Think about your local historic environment when designing your station. How can you make something new and futuristic that doesn't look out of place?

Environment – Demonstrating a commitment to the natural world

Think about how your station impacts on the environment and local wildlife. How could your station be built to have a positive impact?

- Make your station carbon neutral by including built-in renewable energy supply.
- Promote biodiversity in the landscaping around your station. You could include a variety of plants to support pollinators and bee populations, or you could reconstruct habitats to provide homes for wildlife.



Figure 2. The landscaping around your station offers lots of opportunities to create new habitats and increase biodiversity.

STATIONS OF THE FUTURE (DESIGN & MAKE PROJECT)

Time

Adaptability – Designing to adapt for future generations

Your station should be built to have a lifespan of over a century. How can you make your station work well for customers one hundred years into the future?

- Think about how inspiring technologies could influence the design of your station and its systems, such as Artificial Intelligence (AI), Virtual Reality (VR), Internet of Things (IoT) systems and robotics.
- Think about the way people will live in the future and how this will impact on your customers' needs. Might they need a hoverboard charging area for example?

Valuing customers time

Design your station to save your customers time.

- Logically design the floor plan so that customers can get to where they need to go quickly and easily.
- Think about how customers will interchange between different modes of transport.
- Help customers to find their way with clear signage around the station.

Things to think about

- How can you apply the principles of people, place and time to your station?
- What other success criteria do you have for your station?
- Who in your team is in charge of your station meeting these success criteria?