Regional Rail Revival Design Challenge 2050

Evaluation Criteria: Levels 7 & 8

The Regional Rail Revival Design Challenge 2050 asks young people to submit their ideas to improve the rail experience in 2050. Whether your ideas are about the on-board experience, improving the way people get around the station or using smart and sustainable tech for a more enjoyable journey, we'd love to hear them.

Through this competition, students will use design thinking processes to develop a prototype in response to the competition brief, and will receive professional assistance with prototyping and pitching their solution.

Team:	School:	Year level:	
Prototype (circle):	Technology or app-driven transport solution/ Comm	munications campaign/ Product prototype/ Building o	or system design
Prototype Descript	ion:		

Competition Criteria		Ev	Shortlisting Panel Comments (based on evidence provided)				
	Not Shown	Novice		Intermedi	ate	Expert	
Empathise and Define	No evidence of	identifies	an	explores the	e individual user	researches, analyses and	
Teams identify the regional	user-needs is	individual	user or	or communi	ty regional rail	evaluates the end-user or	
rail transport needs of a	shown	communit	y regional	needs		community regional rail needs	
user or group of users		rail need					
				explores dif	ferent influences	researches and evaluates	
Design and Technologies		summaris	es	on the ways	people work,	different influences on the ways	
VCDSCD049		different i	nfluences	such as tech	nnological	people work, such as	
		on the way	ys people	change, and	d predicts	technological change, and	
Economics and Business		work, such	n as	changes to	work in future	predicts changes to work in	
VCEBW017		technolog	ical			future	
		change					
Design and Technologies				explains how	w they identified	evaluates how they identified	
VCDSTS044		presents t	he user-	user needs,	the choice of	user-needs, choices of	
		needs and	l their	technologie	s and new	technologies and new	
		choice of		opportunitie		opportunities for their regional	
		technolog		regional rail	design solution	rail design solution	
		for their re					
		rail design	solution				
	N	1	2	3	4	5	

Competition Criteria		Ev	aluation (Shortlisting Panel Comments (based on evidence provided)			
	Not Shown	Novice		Intermedi	ate	Expert	
Ideate Teams develop a range of regional rail transport ideas that would meet the needs of their users	No evidence of ideation was shown.	lists a few that meet user need creative tl processes	some s using hinking	meet the ne utilizing cre	everal ideas that seds of users ative thinking then selects the sle ideas	generates an extensive range of ideas that meet user needs using creative thinking processes and uses critical thinking to select the most suitable ideas	
esign and Technologies CDSCD050 ritical and Creative hinking CCCTQ034		identifies researche possible d	s other		ita through improve the odifies existing	synthesises data from a range of researched sources to improve the design or modifies forms in nature to solve a problem or create new designs	
	N	1	2	3	4	5	

Competition Criteria		Evo	aluation (of Performa	anding	Shortlisting Panel Comments (based on evidence provided)	
	Not Shown	Novice		Intermedi	ate	Expert	
Prototype Teams create a prototype of their regional rail design solution	No prototype was shown	safely mar technologi materials t produce a prototype	ies and to	manipulate	ndependently s technologies als to produce a otype	safely, independently and innovatively manipulates technologies and materials to produce a high-quality prototype and considers alternatives to	
Design and Technologies VCDSCD051 Science VCSIS108		considers I research c them build prototype	how ould help I their	the internet	esearches using , observations, or experiments I their	reduce waste or time develops strategies and techniques for effective research such as using the internet, observations, simulations or experiments to help build their prototype and evaluates their strengths and limitations	
	N	1	2	3	4	5	

Competition Criteria		Shortlisting Panel Comments (based on evidence provided)					
	Not Shown	Novice		Intermed	iate	Expert	
Communicate	No pitch video was	presents	a pitch	presents a	pitch video	presents a pitch video that	
Teams create a video pitch	submitted	video utili	sing a	utilising on	e or two media	creatively utilises multiple	
to promote their regional		media fed	iture to	features to	convey	production and editing features	
rail design solution		enhance t	he pitch	meaning a	nd enhance the	such as camera angle, framing,	
		presentat	ion	pitch prese	entation	colour filters, text and sound to	
Media Arts						effectively convey meaning and	
VCAMAM036						enhance the pitch presentation	
		the video	•				
Design and Technologies		the succe		the video e	•	the video evaluates the success of	
VCDSCD052		"	solution in		their designed	their designed solution in meeting	
		meeting t	he user's		meeting the	the user's needs and how changes	
		needs			ls and changes	were made to improve their design	
				which could		through testing and iteration, as	
				through ite	ration	well as future changes to be made	
	N	1	2	3	4	5	-

Competition Criteria		Shortlisting Panel Comments					
							(based on evidence provided)
	Not Shown	Novice		Intermedi	ate	Expert	
Reflect	No project	outlines m	ethods	describes th	ne effectiveness	evaluates the effectiveness of	
Teams reflect and evaluate	reflection was	used to so	lve the		used to solve	methods used to solve the user	
on the processes used to	submitted	user probl	em and	the user pro	blem and	problem with evidence such as test	
develop their design and the		notes that		explores dif		data and investigates different	
effectiveness of teamwork		improvem		improveme	nts to be made	improvements to be made	
and project management		could be n	nade				
Science		descriptio		evidence of		evidence of excellent teamwork and independent project	
VCSIS112		teamwork evidence t		_	nt processes	management which followed timelines and sequences for	
Digital technologies VCDTDI039		followed instruction	ns for	which follow and sequen	ed timelines ces for	completing tasks on time	
		collaborat work	ive group	completing with assista	tasks on time nce		
	N	1	2	3	4	5	

Strand	Code	Descriptor
Design and Technologies	VCDSCD049	Critique needs or opportunities for designing and investigate, analyse and select from a range of materials, components, tools, equipment and processes to develop design ideas
	VCDSCD050	Generate, develop and test design ideas, plans and processes using appropriate technical terms and technologies including graphical representation techniques
	VCDSCD051	Effectively and safely use a broad range of materials, components, tools, equipment and techniques to produce designed solutions
	VCDSCD052	Independently develop criteria for success to evaluate design ideas, processes and solutions and their sustainability
	VCDSTS044	Investigate the ways in which designed solutions evolve locally, nationally, regionally and globally through the creativity, innovation and enterprise of individuals and groups
Digital Technologies	VCDTDI039	Manage, create and communicate interactive ideas, information and projects collaboratively online, taking safety and social contexts into account
Science	VCSIS108	Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed
	VCSIS112	Reflect on the method used to investigate a question or solve a problem, including evaluating the quality of the data collected, and identify improvements to the method
Economics and Business	VCEBW017	Describe the nature and investigate the influences on the work environment
Media Arts	VCAMAM036	Plan, structure and design media artworks for a range of purposes that engage audiences using media elements, technologies and production processes
Critical and Creative Thinking	VCCCTQ034	Synthesise information from multiple sources and use lateral thinking techniques to draw parallels between known and new solutions and ideas when creating original proposals and artefacts