Design 2019 v1.1

IA3 mid-level annotated sample response

June 2018

Project (25%)

This sample has been compiled by the QCAA to assist and support teachers to match evidence in student responses to the characteristics described in the instrument-specific marking guide (ISMG).

Assessment objectives

This assessment instrument is used to determine student achievement in the following objectives:

- 1. describe the features and sustainable requirements that define a redesign problem and design criteria based on the requirements of the opportunity and the principles of good design
- 2. represent ideas, a sustainable design concept and sustainability information using schematic sketching and ideation sketching and/or low-fidelity prototyping in the explore and develop phases
- 3. analyse redesign opportunities using data about existing designed solutions and sustainability information
- 4. devise ideas using divergent thinking strategies and circular design methods in response to a redesign problem in the develop phase
- 5. synthesise ideas and sustainability information to propose a sustainable design concept in the develop phase
- 6. evaluate the strengths, limitations and implications of ideas and a sustainable design concept against design criteria to make refinements
- 7. make decisions about and use visual, written and/or spoken communication to present a design brief and visual display of a design proposal for stakeholders.





Instrument-specific marking guide (ISMG)

Criterion: Exploring

Assessment objectives

- 1. describe the features and sustainable requirements that define a redesign problem and design criteria based on the requirements of the opportunity and the principles of good design
- 3. analyse redesign opportunities using data about existing designed solutions and sustainability information

The student work has the following characteristics:	Marks	
 discerning description of features and sustainable requirements that define a redesign problem and essential design criteria based on the requirements of the opportunity and the principles of good design insightful analysis of redesign opportunities using relevant data about existing designed solutions and sustainability to identify the significant features, constraints and the relationships between them. 	6–7	
 adequate description of features and sustainable requirements that define a redesign problem and some design criteria based on the requirements of the opportunity and the principles of good design appropriate analysis of redesign opportunities using data about existing designed solutions and sustainability to identify features and constraints. 	4– <mark>5</mark>	
 superficial description of a redesign problem with sustainable requirements and some design criteria superficial analysis of redesign opportunities to identify some partial features. 		
 description of aspects of a redesign problem statements about opportunities. 	1	
does not satisfy any of the descriptors above.	0	

Criterion: Devising

Assessment objectives

4. devise ideas using divergent thinking strategies and circular design methods in response to a redesign problem in the develop phase

The student work has the following characteristics:	Marks
• multiple ideas perceptively devised from different points of view — with each idea incorporating unique, credible and detailed attributes — using divergent thinking strategies and circular design methods in response to a redesign problem in the develop phase.	4–5
 ideas appropriately devised — with each idea incorporating credible and detailed attributes — using a divergent thinking strategy and aspects of circular design methods in response to a redesign problem in the develop phase. 	2– <mark>3</mark>
• ideas disjointedly devised in response to aspects of a redesign problem.	1
does not satisfy any of the descriptors above.	0

Criterion: Synthesising and evaluating

Assessment objectives

- 5. synthesise ideas and sustainability information to propose a sustainable design concept in the develop phase
- 6. evaluate the strengths, limitations and implications of ideas and a sustainable design concept against design criteria to make refinements

The student work has the following characteristics:		
 coherent and logical synthesis by combining attributes of multiple ideas and sustainability information to propose an innovative sustainable design concept in the develop phase critical evaluation of the strengths, limitations and implications of ideas and a sustainable design concept against design criteria to make discerning refinements that improve ideas and the sustainable design concept. 	4–5	
 simple synthesis by combining ideas and sustainability information to propose a sustainable design concept feasible evaluation of the strengths and limitations of ideas and sustainable design concept against some design criteria to make adequate refinements. 	2– <mark>3</mark>	
 unclear combination of ideas make statements about ideas or the sustainable concept. 	1	
does not satisfy any of the descriptors above.	0	

Criterion: Representing and communicating

Assessment objectives

- 2. represent ideas, a sustainable design concept and sustainability information using schematic sketching and ideation sketching and low-fidelity prototyping in the explore and develop phases
- 7. make decisions about and use visual, written and/or spoken communication to present a design brief and visual display of a design proposal for stakeholders.

The student work has the following characteristics:	Marks
 sophisticated representation of ideas, a design concept and sustainability information using fluent sequences of schematic sketching and ideation sketching and/or low-fidelity prototyping to progress understanding in the explore and develop phases discerning decision-making about, and fluent use of. illustrations and/or low-fidelity prototypes to promote a design opportunity with sustainable attributes for relevant stakeholders written and/or spoken conventions, features and design-specific language to present a design brief for a specified audience. 	<u>7</u> –8
 considered representation of ideas, a design concept and sustainability information using proficient schematic sketching and ideation sketching and/or low-fidelity prototyping to progress understanding in the explore and develop phases effective decision-making about, and proficient use of, illustrations and/or low-fidelity prototypes to promote a design opportunity with sustainable attributes for relevant stakeholders written and/or spoken conventions, features and design-specific language to present a design brief for a specified audience. 	5–6
 appropriate representation of ideas, a design concept and sustainability information using schematic sketching and ideation sketching and/or low-fidelity prototyping in the explore and develop phases appropriate decision-making about and use of illustrations and/or low-fidelity prototypes to promote a design opportunity written and/or spoken conventions and features to present a design brief. 	34
 cursory representation of ideas and information using unclear sketching or low-fidelity prototyping in the design process variable decision-making about, and inconsistent use of, illustrations and/or low-fidelity prototypes written and/or spoken conventions. 	1–2
does not satisfy any of the descriptors above.	0

Task

Context

The context of this project is sustainable design. Fundamental to sustainable design is the principle that designers should create new designs that can be supported indefinitely in terms of their economic, social and ecological impact on human wellbeing.

Products, services and environments are often designed for specific cultural celebrations and events. Unfortunately, their use is often limited to the duration of the event. Examples include a mobile phone app for spectators navigating events at a music festival or a Christmas-themed carry bag.

Task

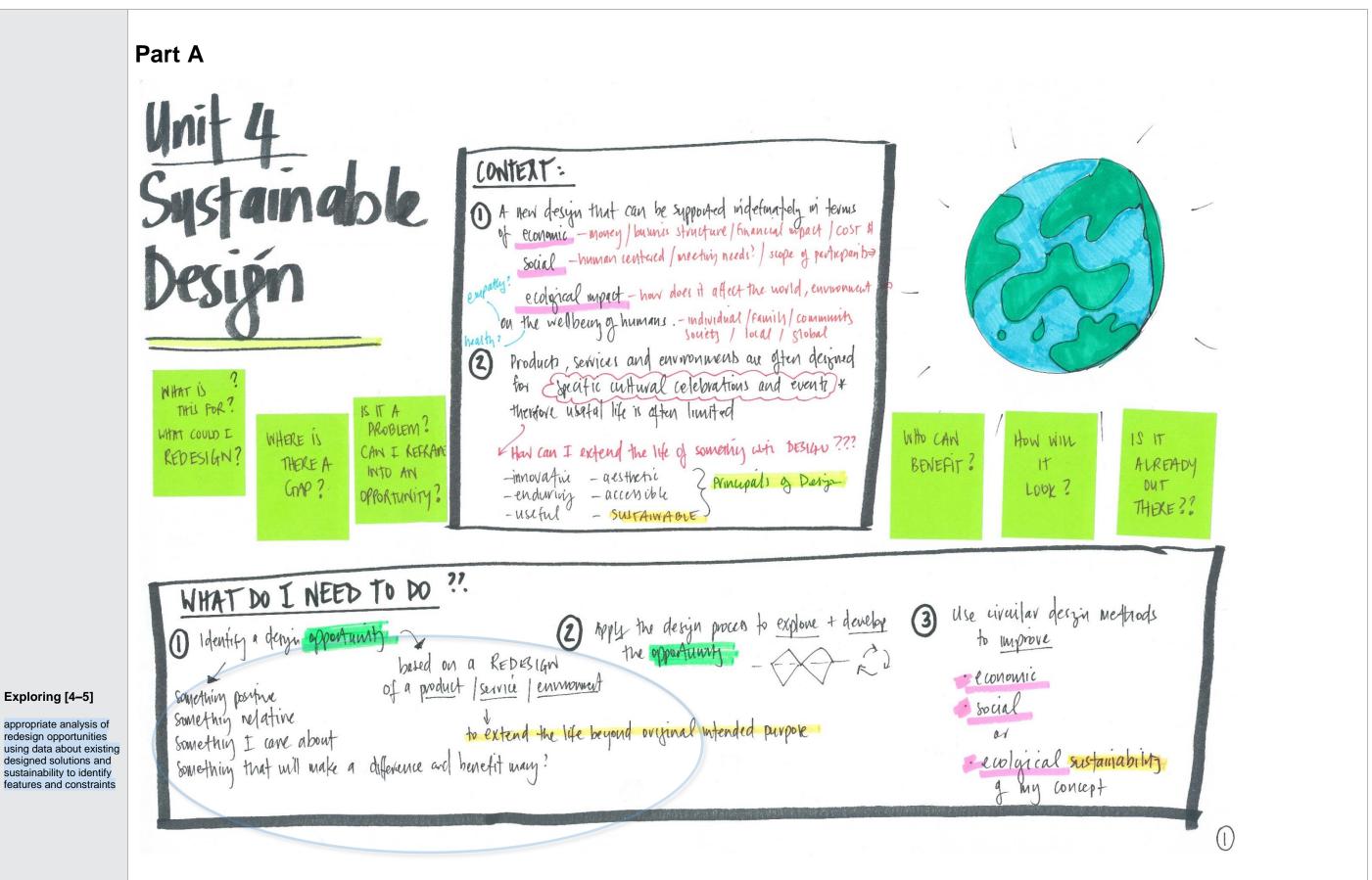
Respond to the following question: How can products, services and environments be redesigned to extend their useful life beyond their original intended purpose? You are required to:

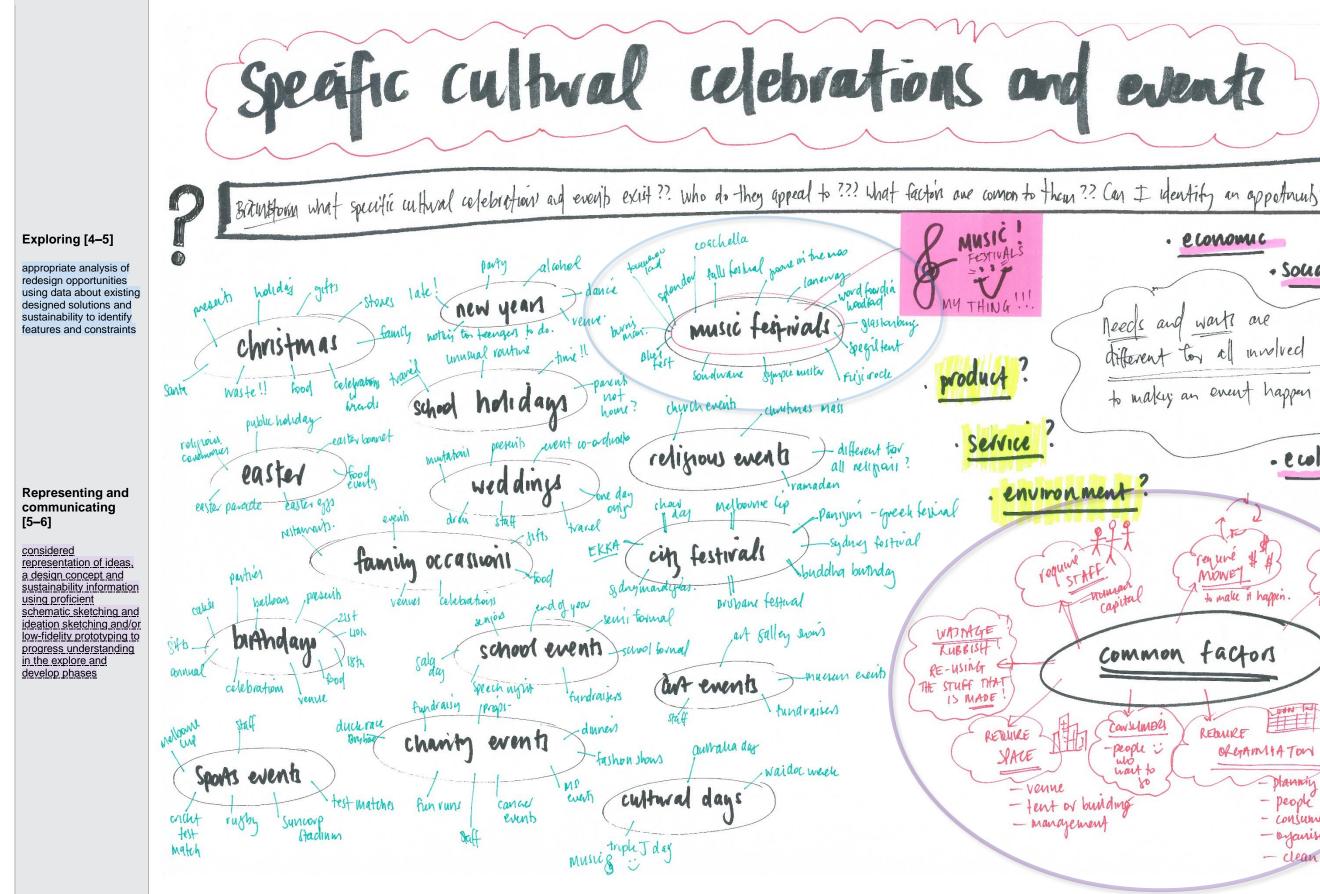
identify a design opportunity based on the redesign of a product, service or environment that was
originally designed for a specific cultural celebration or event

- apply the design process to explore and develop the opportunity
- use circular design methods to improve the economic, social or ecological sustainability of your design concept.

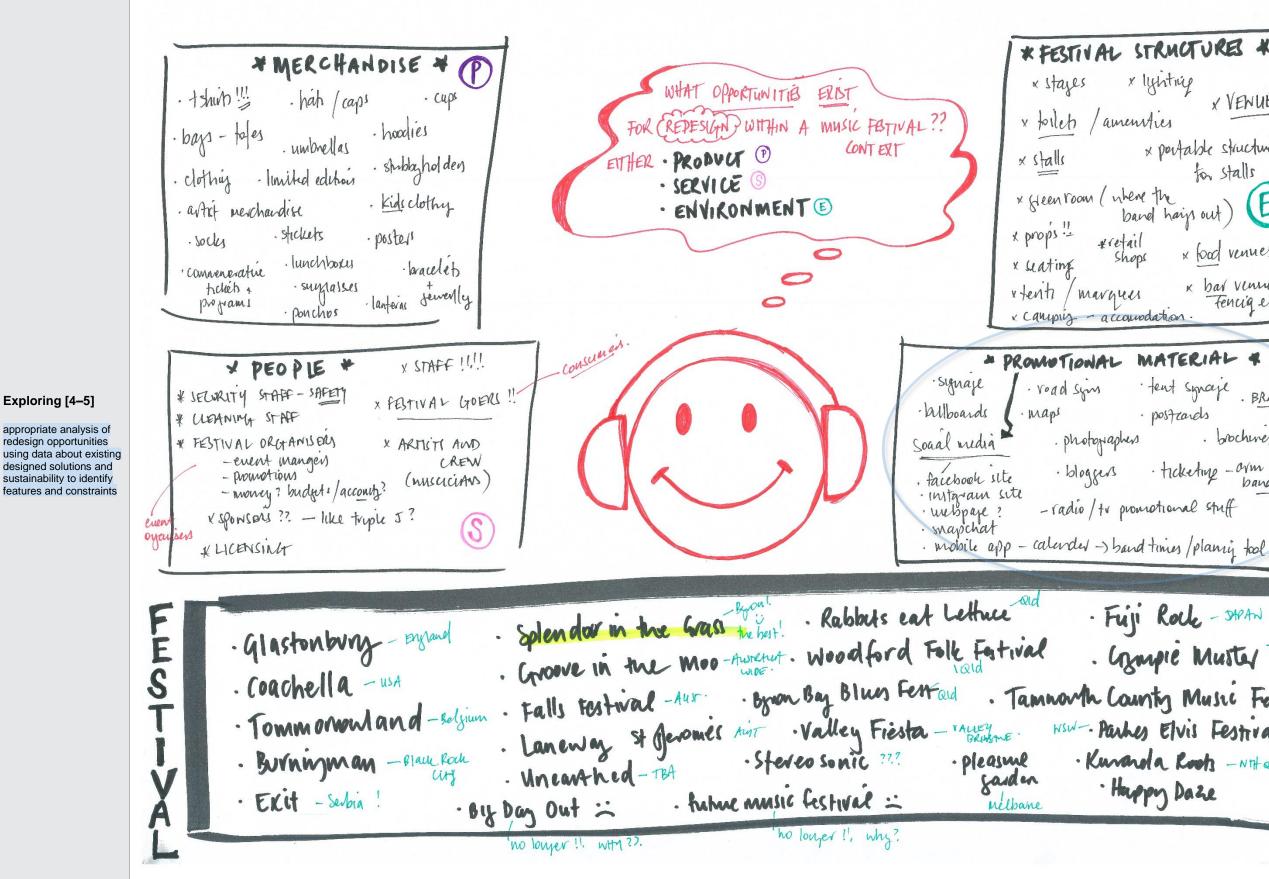
Sample response

Criterion	Marks allocated	Result
Exploring Assessment objective/s 1, 3	7	5
Devising Assessment objective 4	5	3
Synthesising and evaluating Assessment objective/s 5, 6	5	3
Representing and communicating Assessment objective/s 2, 7	8	7
Total	25	18

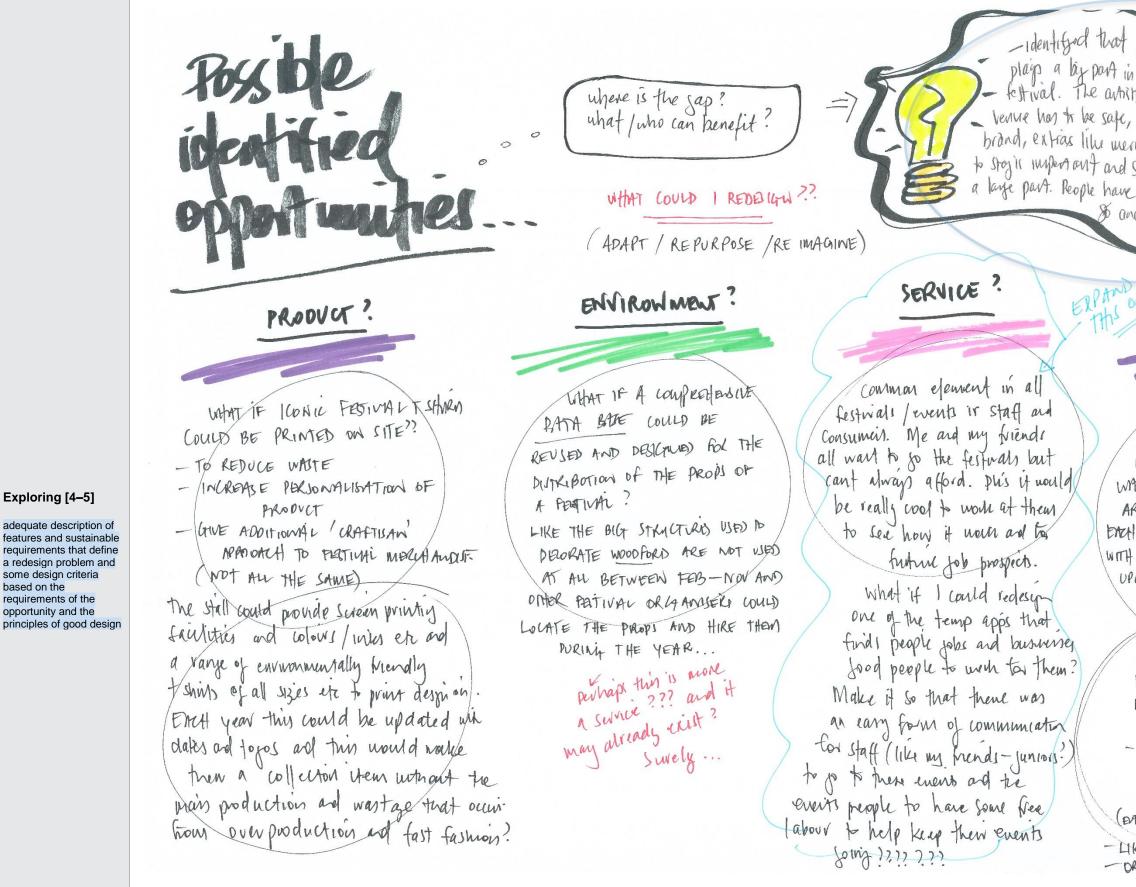




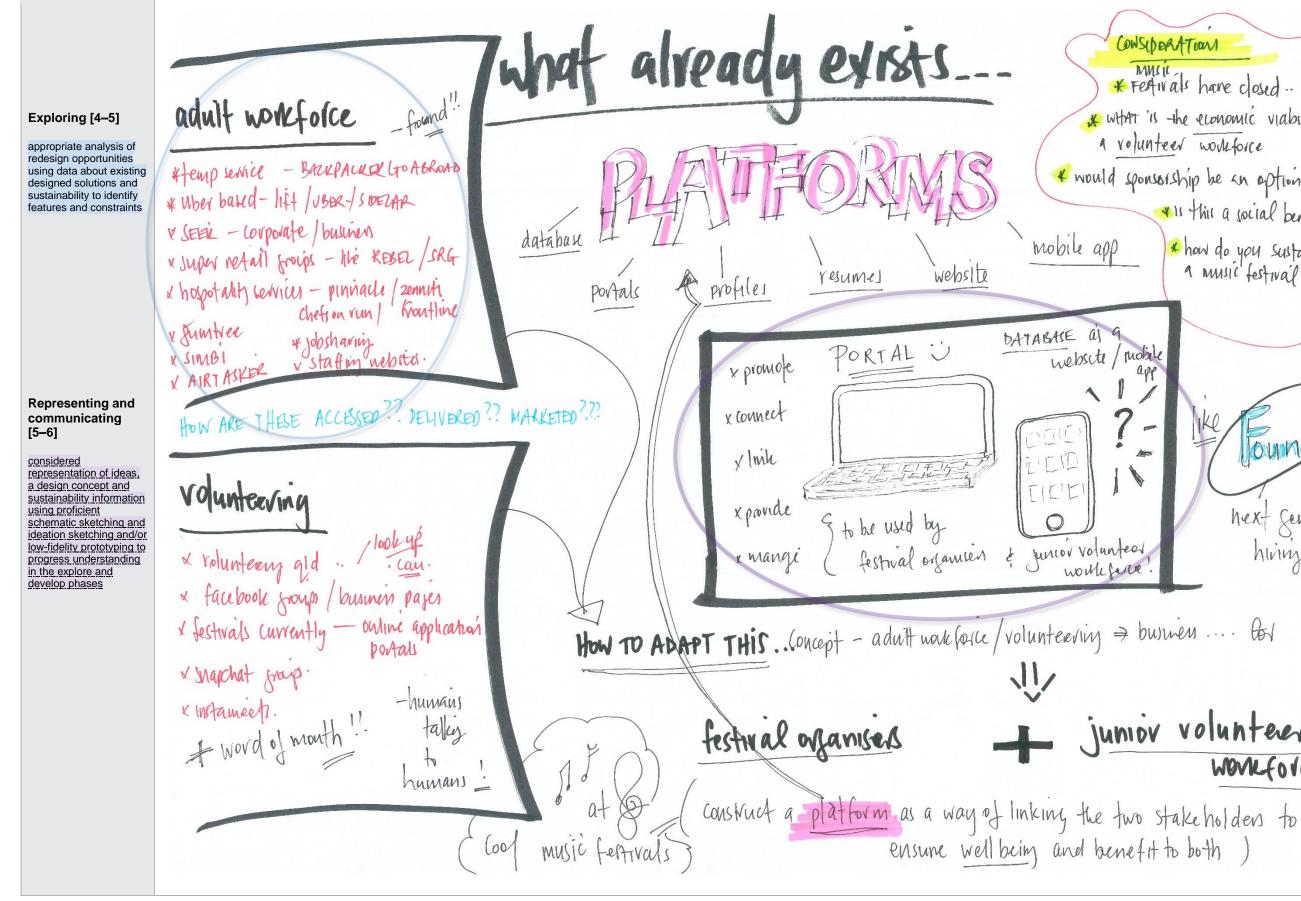
· economic + soual warts are needs and involved different 10 to makey an event happen - ecolorical require ea PROMOTIC MOWE to make it happen b Joual madia aducting common factors pravdig 田 CONSUMER REDURE -people : ORGAMMIATON want to Dannin - people - consumer - oyanisers - clean up. (2)



* FESTIVAL STRUCTURES * farm . ·lavol. x lypiting building? X VENUE / amenuties tent? * pertable structures for stalls E band haip out *retail x bod venues Shops x bar vennes margues Fencig etc. * PROMOTIONAL MATERIAL # · tent smaje . BRANDIG · postcards . brochines · ticketing - orm band -radio / to promotional stuff · Fuji Rock - SAPAN . Compie Muster . Tannorth County Music Fest WSW- Parkes Elvis Festival · Kunanda Koots -NTHELD · Huppy Daze 3



(4) - identified that Homan CAPIDAL plays a by part in success of a tood music festival. The autit have plue pool the venue has to be safe, it needs to have a brand, extras like merch, food and place to stogic impersion of and social media plop a laye part. Reopie have to want to pay to \$ and essentially it a business \$ PRODUCT ? 277 TICKETS ARMBANDS WHAT IF THE FISTINAL-GOER WAL ABLE TO HAVE AN ARMBAND THAT GOT RE-USED WITH ENOH FORTIVAL? LIKE RELOADED WITH EACH YEAR ATTENDED ? OR UPGRADED TO SHOW HOW MANY FESTIVAL YOU ATEND? IT WOULD BELOME A STATUS SYMBOL AMONDET CONTACT CU- BIZI AND NOULD BE TREATED AT COMMENSUPPORTUE. NOT WASTFUL ? JAME TICKETLY MISTERN COULD BE USED ? - JOMEONE LOULD DESIGN THE ACTUAL BAND DUT OF SUSTAINABLE PRODUCTI AND COST WOULD BE (EVRY) REDUCED IF YOU HAD ONE ! - LIKE FRONT OF LANE PAS(@) IN EY LAM - OR GOLDEN TICKET - TRIPLET ??



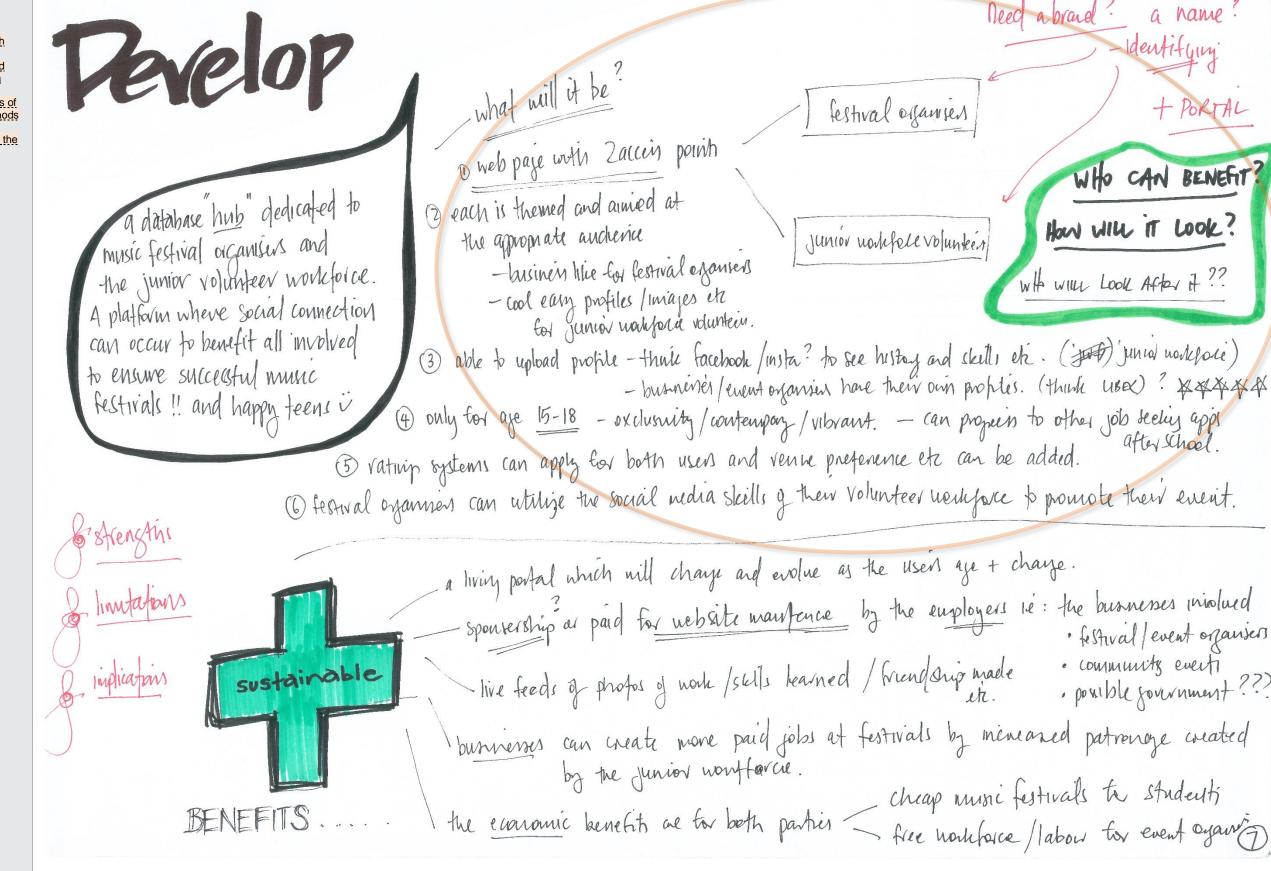
CONSIDERATION MMSIC * Festivals have closed .. wity? * with is the economic viability of a volunteer workforce * would sponsorship be an option?? *11 this a social benefit? * how do you sustain a music festival? mobile app Tound hext Seneration hing . junior volunteer Workforce \bigcirc

	Platform for which high school poer could 'wour' at festivals and areate employment skills and methoding. tt so much me	 D festival ovjamilis / event mai D junior volunteer workforce ? 	-(3) potential paid staff members (to con ngers (Me and my friends? - Music festival (music lovers) (live mi
	ECONOMIC ? SOCIAL ?	TINAL ORGANISERS	2 JUNIOR VOLUNTER
	ENVIRONMENTAL? HAVE : WILL IT ERTEND THE LIFE BEYOND	staff already := but not gravartered. (cosual work force) cool event with muschains.	HAVE: - different interests - varied availability - already a bank of - school / work / fam
	WHAT CAN I	young hipsters! to help promote their event to keep it relevant low cost ways or ensuring staffing their events.	NED: - opportunities to be at school - to increase their # adulting
Exploring [4–5] adequate description of features and sustainable requirements that define a redesign problem and some design criteria based on the requirements of the opportunity and the principles of good design	WANT :	a sustainable business that has a socio-economic conscience. Snowtin north totce - like people have worked their as youry adults, affended as consumers and promote their even as the best - (promotionial made box free)!!! outoing buromers - to make money also	to increase emp future money m - to attend cool

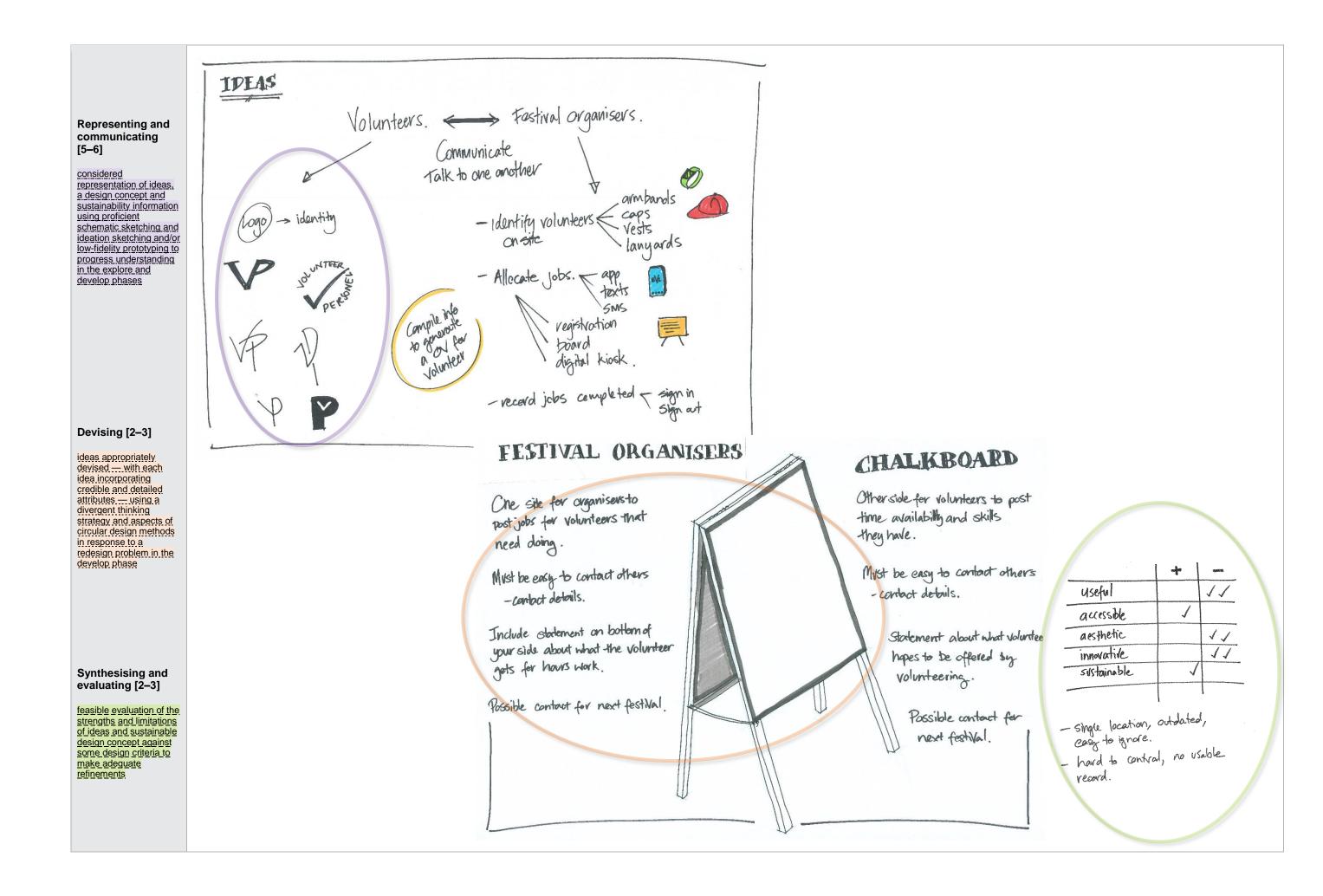
to Further consider - cconomic cost)... 1 affendies that can't always affend) music)!!! : to so? EER WORKFOKCE (students aged) 15-18 s, music, tood, tech, sport, values my and tree time of skills and attributes to offer employer my commitments build their resume whilst still is 'social network' for fitue minded people in an environment a awerome. he environments that are event to the usual uployability skills and incueate nating petential. minual \$ \$ money. 5

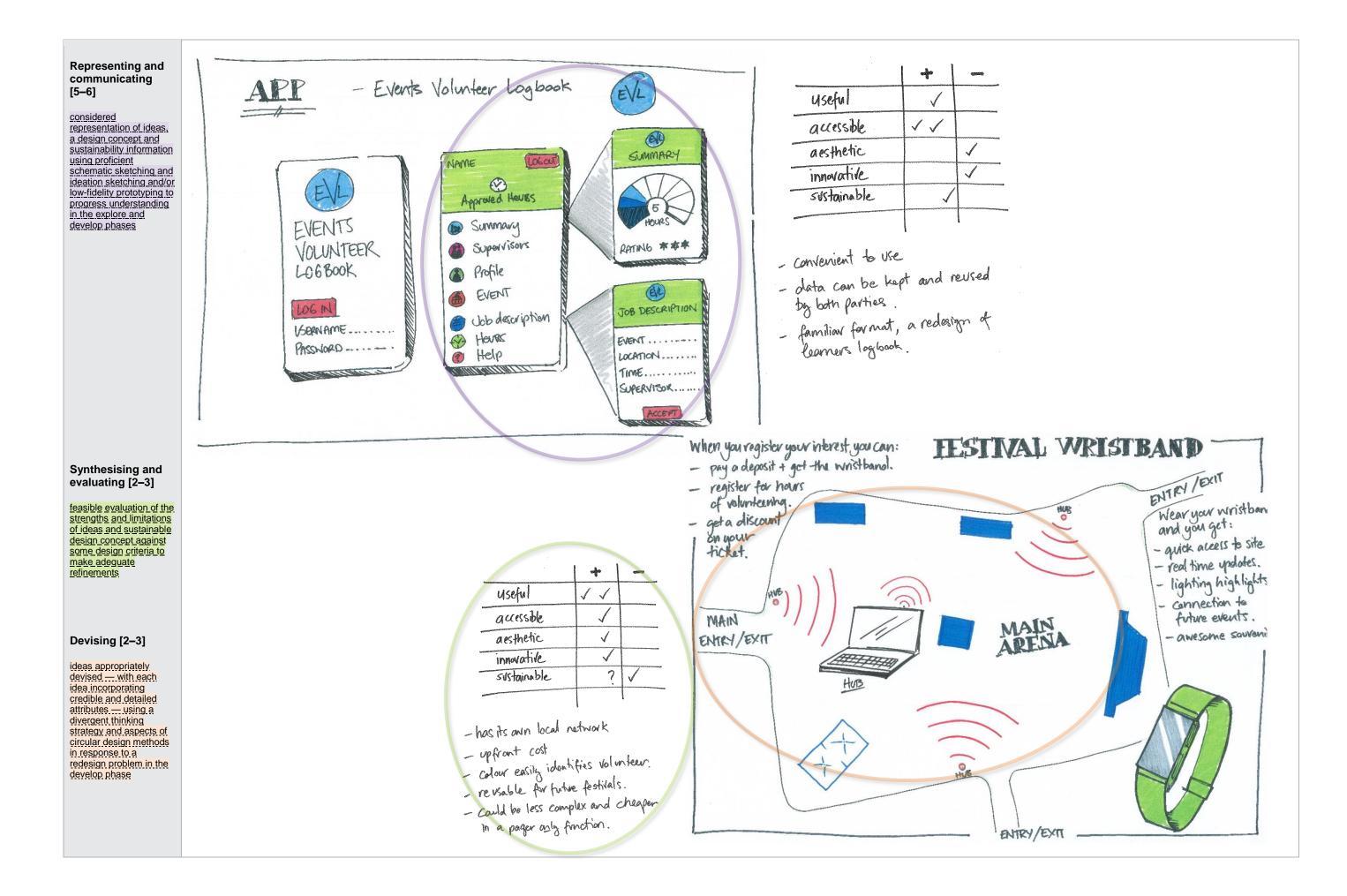
Devising [2-3]

ideas appropriately devised — with each idea incorporating divergent thinking strategy and aspects of ircular design methods in response to a redesign problem in the develop phase



need a brand . a name? dentifum + PORTAL WHO CAN BENEFIT How will it Look? with will Look After it ?? · festival event organisers · community events , possible forumment???





Part B

Design Brief

Festivals are common in Australia however, many large festivals such as Big Day Out and Future Music have not been socially and economically sustainable and are no longer in existence. The target market for these festivals is young people (18 to 25). Volunteering helps the organisers to keep costs down, allows young people to access expensive festivals and builds a sustainable social network that supports the ongoing viability of festivals. A further benefit is that a junior volunteer workforce would be developing employability skills that could be recorded and added to their resume. Volunteers need to be recognisable at festivals without the use of merchandise that is quickly disposed of after the festival.

effective decisionmaking about, and fluent use of, written and/or spoken conventions, features and design-specific language to present a design brief for a specified audience

Exploring [4–5]

adequate description of

features and sustainable requirements that define

a redesign problem and some design criteria

opportunity and the principles of good design

based on the requirements of the

Representing and

communicating

[7–8]

There is an opportunity to redesign how volunteers are managed at events. This includes how they are identified within the festival environment and how organisers and volunteers communicate. The product, service or environment must be developed using a circular design approach so that it has ongoing useability beyond a single festival.

Design Criteria

Design a service that

- allows organisers and volunteers to communicate in the festival environment (useful)
- provides a way of identifying volunteers at the event (useful)
- is easily understood by organisers and volunteers with a minimum of training (accessible)
- encourages young people to feel a sense of social connection including visual identity (aesthetic)
- includes new or unique ways of improving communication (innovative)
- has ongoing relevance for future festivals and avoids elements that are discarded at the conclusion of a festival (sustainable)

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Part C

Representing and communicating [2–3]

effective

decision-making about, and proficient use of, illustrations and/or low-fidelity prototypes to promote a design opportunity with sustainable attributes for relevant stakeholders

Synthesising and evaluating [2-3]

<u>simple synthesis by</u> combining ideas and sustainability information to propose a sustainable design concept

Synthesising and evaluating [2-3]

feasible evaluation of the strengths and limitations of ideas and sustainable concept against some design criteria to make adequate refinements

Event Volunteer Logbook

a service for 21st century festivals connecting volunteers and event organisers.

JOB D

EVENT ...

LOCATION

TIME ..

SUPERVISOR

ACCEP

App Strengths

- task description and history with performance rating
- familiar format, easily
- understood, minimum training
- redesign based on Qld Learner Logbook

Limitations

cost

- distribution of wristbands
- app must be downloaded
- prior to festival where internet is not available

Implications

· field testing is needed to identify how well EVL will relate to and encourage young people to volunteer

Design 2019 v1.1 IA3 mid-level annotated sample response

