



Officers Report

Appendix 2

Report on 3D Model – School Sessions

Waimakariri Residential Red Zone Recovery Plan

Report on 3D Model – School Sessions

March 2016



3D Model - School Consultation

1 Introduction

1.1 Background to the 3D Model

The idea for the 3D Model came from work done in the UK by an organisation called 'Planning for Real'. They have a 25-year history of designing and facilitating community engagement programmes on diverse scales and issues that have worked with and supported communities to have a say in what happens in their neighbourhoods.

The Planning for Real model was appealing because:

- It was hands-on, simple and allowed active participation.
- It had wide appeal across all age groups.
- It was proven to get a greater level of participation.
- It was cost-effective.
- It allowed us to 'go to the where the people' are rather than wait for the people to come to us.
- It was visible and tangible.

1.2 How it works

Enlarged maps of the five regeneration areas (Kaiapoi West, Kaiapoi South, Kaiapoi East, Pines Beach, and Kairaki) were printed onto standard paper foam board and laid on trestle tables (this allowed people to walk around the maps and see the scale of the proposed land uses). Keys to the coloured areas were printed on to cards so people could see the different land uses that were proposed.

People were invited to put flags onto the model telling us:

- What they liked (blue flag);
- What they were concerned about (orange flag); and
- Any new ideas they had (pink flag).

Staff were able to interact with visitors to the model and help them understand the uses and explain some of the detail contained in the full plan.

In addition to the 3D model, maps showing both the preferred and alternative roading options for Kaiapoi South and Kaiapoi East and their associated strengths, weaknesses and costs were displayed on large boards. While looking at the 3D model, the public could consider which of the roading options they preferred, and colour dots were provided so the public could vote for their preferred option.



1.3 3D Model engagement

The 3D Model was displayed at following local schools:

- Kaiapoi High School
- St Patricks Primary School
- Kaiapoi North Primary School
- Kaiapoi Borough Primary School
- Woodend Primary School
- Clarkville Primary School (at the Ruataniwha Civic Service Centre) and
- Tuahiwi School (at the Ruataniwha Civic Service Centre)

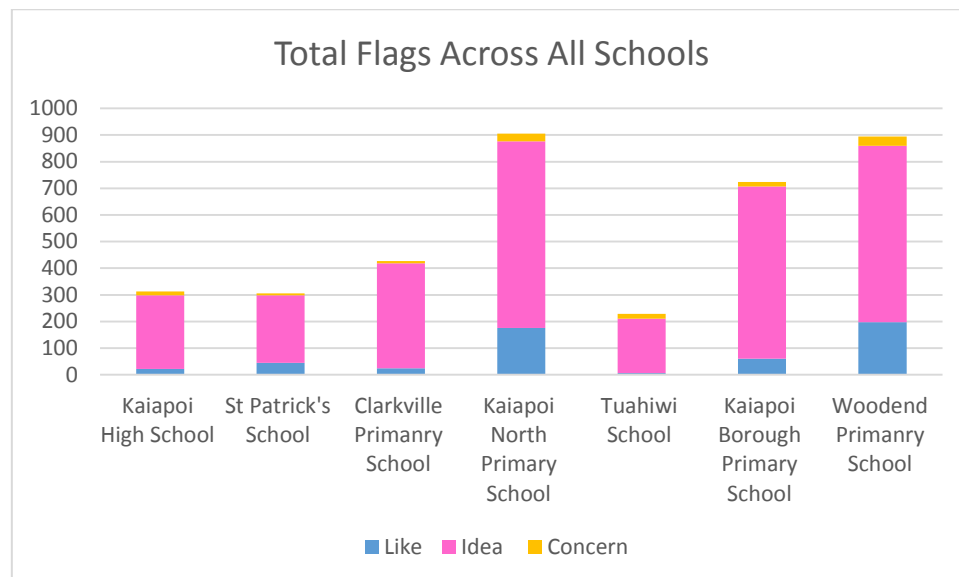
These primary schools were approached to participate in the 3D model consultation as they are located within the Kaiapoi High School zone, and as such were likely to live locally and have a connection to the Kaiapoi Township.



Photos above: Students interacting with the 3D Model

In total over 1100 students engaged with the model and almost 4000 ideas were 'posted' on the model as the graph below shows.

Graph 1 – Total Flags Across All Schools



1.4 Analysis of school visits methodology

1.4.1 Benefits of the school visits

The benefits of the taking the 3D model to the local schools, was that it allowed the students to engage in development of the Recovery Plan (which they would not have been aware of if the standard consultation methods were used), in a way that was easy to understand. The 3D model provided an 'informal' consultation method which was a great tool to lift the profile of the Recovery Plan process, as students may go home and speak to their family and friends about the proposed new uses for the regeneration areas. And in fact some students brought parents/caregivers to the Ruataniwha Kaiapoi Civic Centre to see the model and provide feedback.

The model provided students with the opportunity to be part of the discussion on the future use of the red zoned land and understand how the decisions would be made. Many students had close ties to the 'red zoned' land, had lived there or close by and still lived there. Many wanted to find their 'home' on the map – creating a sense of belonging and reality to the discussion.

Senior students from each school have been involved in understanding their schools responses, summarising and preparing a presentation to share with the Hearing Panel in April 2016.

Although this informal consultation style only provides very brief commentary on the proposed land uses it does help to get the buy in of the community across a number of generations as the outcomes of the Recovery Plan will be implemented over the next 30 years.

1.4.2 The limitations of the data collected

As mentioned above the 3D model consultation method was a tool used to raise the profile of the Recovery Plan within the community, and stimulate discussion with the goal being that the increased public profile leads to additional formal written submissions being received during the consultation period. The nature of the 'flags' feedback meant that there is very little detail or rationale provided

with the feedback to support the 'ideas' 'likes' or 'concerns'. Furthermore, the feedback received only relates to the layout of the land use within the spatial maps and as such no background reading or in depth knowledge of the issues was required. Finally, because the feedback provided was anonymous there was no accountability for the feedback that were given, and no way for officers to contact the submitter to discuss the specific feedback.

Given the limitations set out above, the weight given to comments gained from this method of consultation by the hearing panel in making recommendations should take into account the level of informality in which the comments were provided in.

1.4.3 How the categories where developed

The concept of the 3D model allowed the students to not only provide their feedback on proposed land use patterns, it also allowed them to think about the types of activities they would like to see developed in the regeneration areas. This open ended consultation style provided a wide range of ideas across the five regeneration areas. As such, in order to draw conclusions from the wide range of responses received the 'flags' were grouped into categories in order to understand the key themes from each school.

2 Specific School Findings

2.1 Kaiapoi High School

The 3D model was located at Kaiapoi High School for two days from the 11th to the 12th of March 2016. During the two days 175 students ranging in age for 11 to 18 viewed the model and provided their feedback in the form of 313 flags.

2.1.1 Analysis

This section analyses the key trends and themes of the flags placed on the 3D model at the Kaiapoi High School.

Total Flags

The following two graphs show the total number of 'Likes' 'Ideas' and 'Concerns' that where placed on the 3D model; first as a total, and then as split between the five regeneration areas.

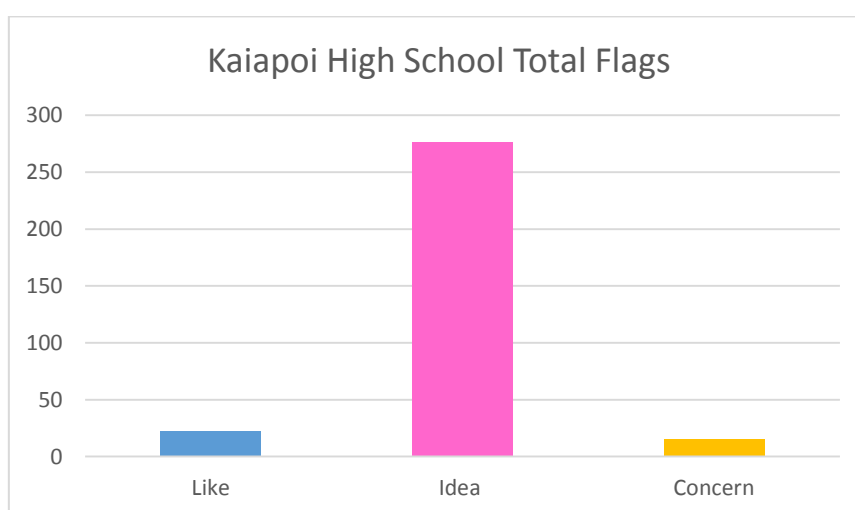


Figure 1: Total number of flags per category

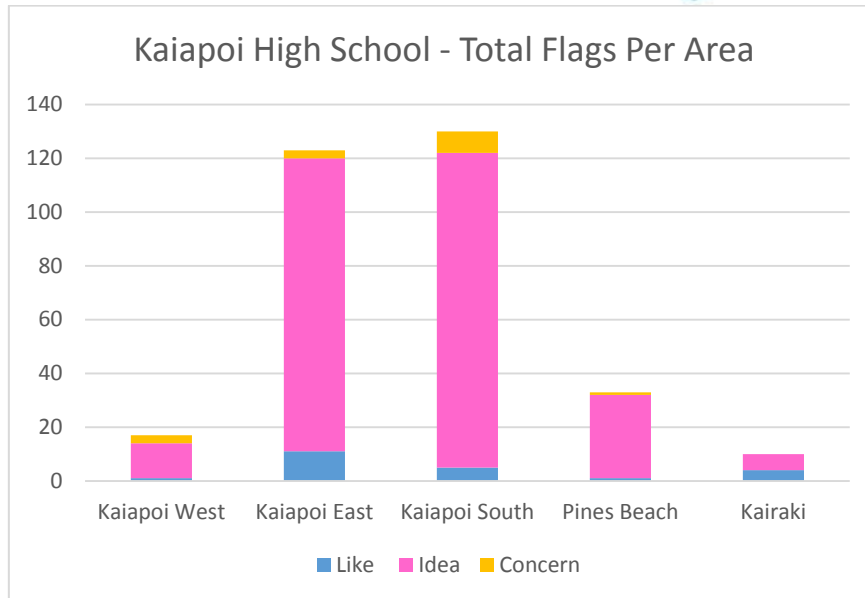


Figure 2: Total number of flags per regeneration area

The above graphs show that the vast majority of flags placed on the 3D model related to new ideas for the regeneration area, and the majority of these ideas were located within the Kaiapoi East and Kaiapoi South regeneration areas.

'Ideas' Flags

Given the proportion of 'idea' flags placed on the model was high, the following two graphs below show further analysis of the 'idea' flags. The first graph separated the ideas into eight broad categories, and then the business and recreation categories are broken down again into types of businesses and recreational activities the students of Kaiapoi High School would like to see within the regeneration areas.

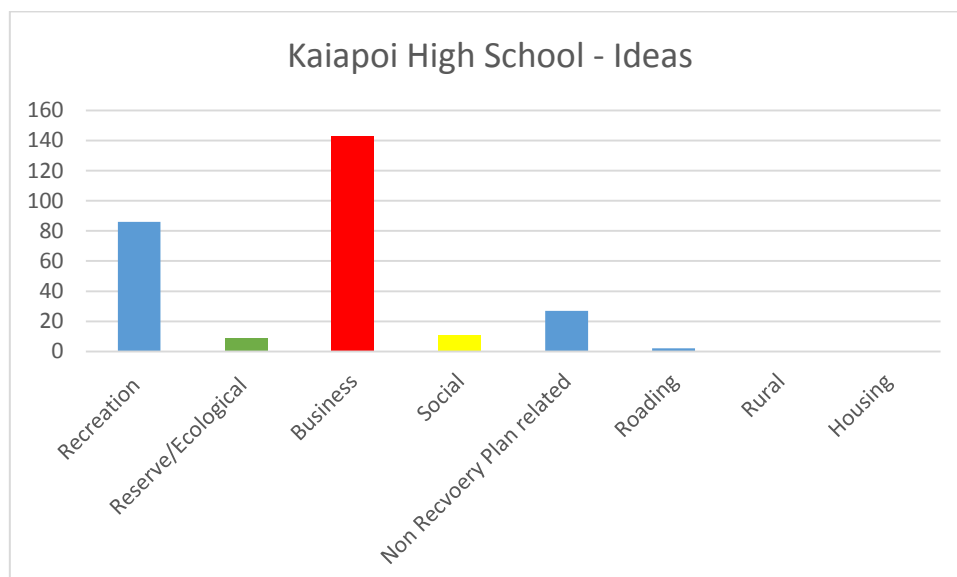


Figure 3: Total number of ideas

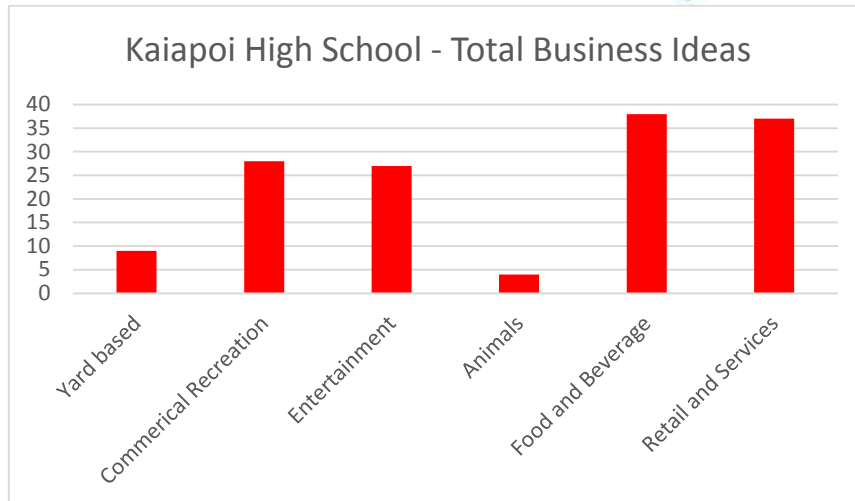


Figure 4: Total business types

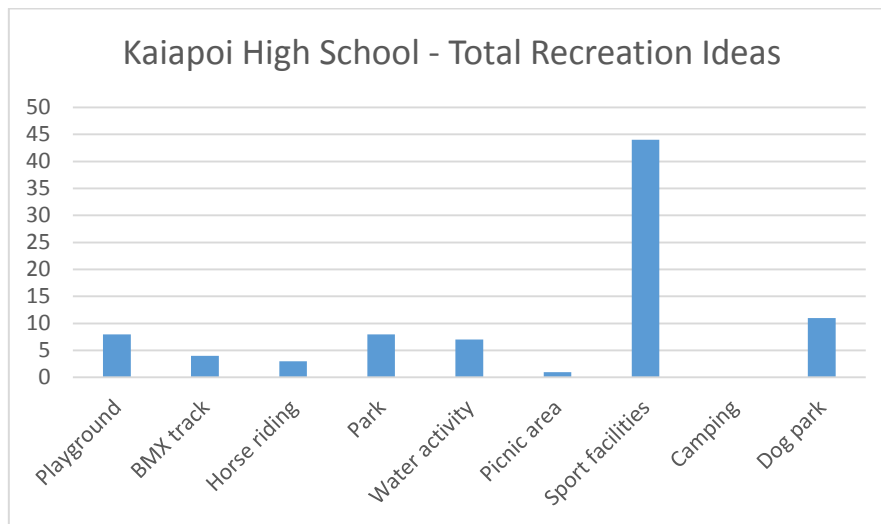


Figure 5: Total recreation types

'Idea flags' per area

The final graph below shows the total number of ideas submitted within each of the regeneration areas, broken-down into idea categories.

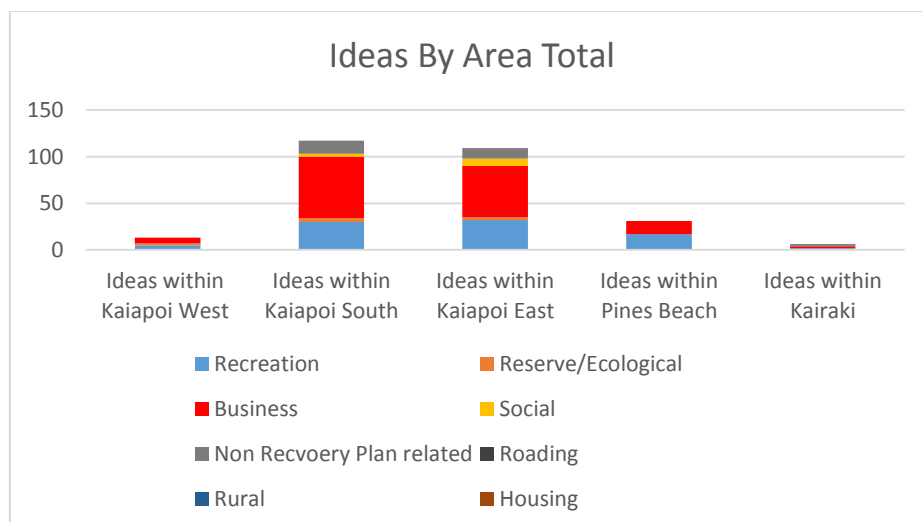


Figure 6: Total ideas by area

2.1.2 Conclusion

The most common ideas suggested related to business uses such as retail and services, entertainment, food and beverage, commercial recreation, and also sports facilities (details of the specific activities within each of these categories can be found in the glossary section) Most of these ideas were proposed to be located within the Kaiapoi South or Kaiapoi East regeneration areas. Overall, it is considered that these ideas are not incompatible to the recovery plan or Kaiapoi township. They tend to focus on ideas and concepts in detail more akin to the implementation stage, rather than the high level broad land use options as presented in the Recovery Plan. These finding suggest that generally Kaiapoi High School students are happy with business growth and support recreation areas and opportunities.

Kaiapoi High School was the only high school that participated in the 3D model consultation, because the students were slightly older, and had a better understanding of the regeneration areas both pre and post-earthquake the feedback received was generally more considered, and constructive compared to the other school visits.

2.2 St Patricks School

The 3D model was located at St Patricks School for one day on the 10th of February 2016. During the day 115 students ranging in age from 5 to 11 viewed the model and provided their feedback in the form of 306 flags.

2.2.1 Analysis

This section analyses the key trends and themes of the flags placed on the 3D model at the St Patricks School.

Total Flags

The following two graphs show the total number of 'Likes' 'Ideas' and 'Concerns' that where placed on the 3D model; first as a total, and then as split between the five regeneration areas.

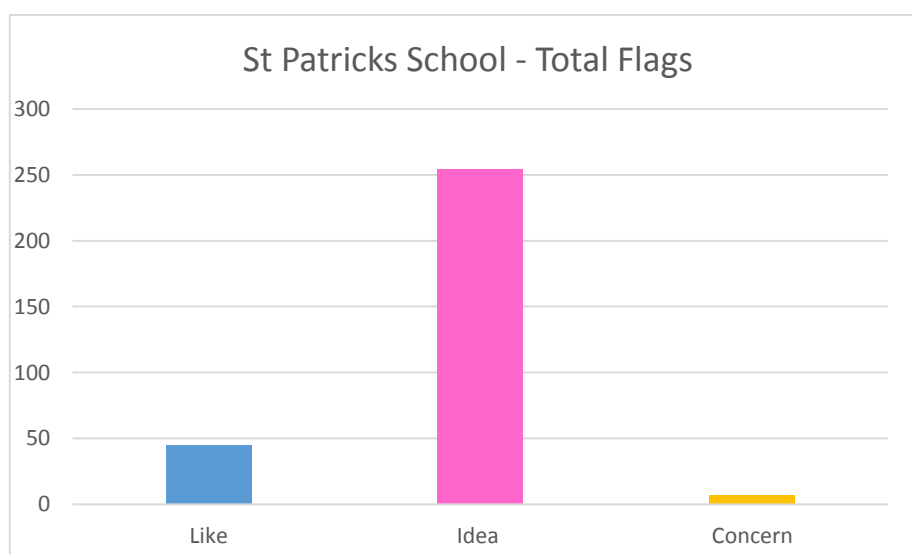


Figure 1: Total number of flags per category

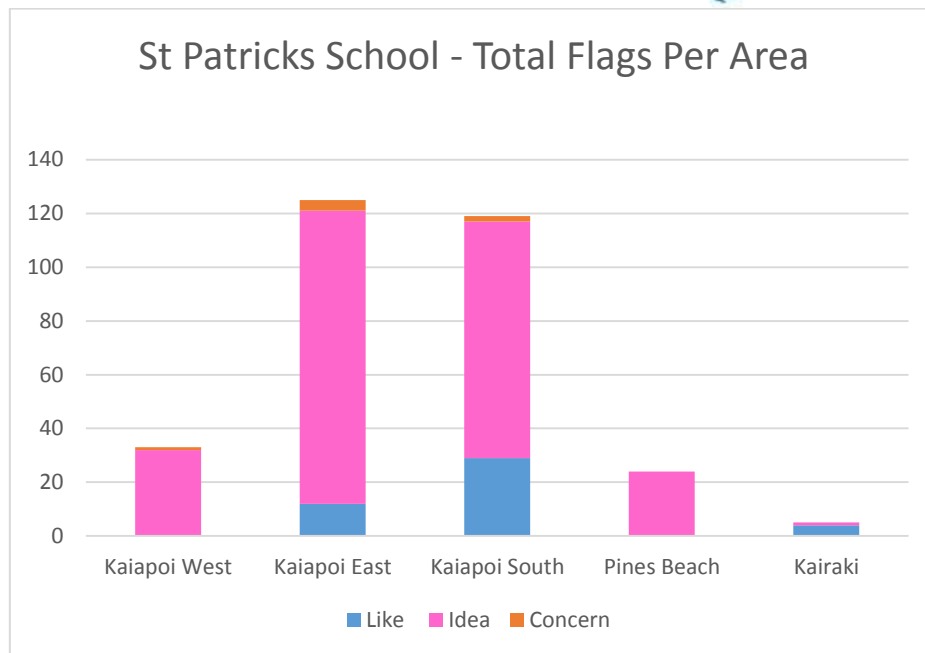


Figure 2: Total number of flags per area

The above graphs show that the vast majority of flags placed on the 3D model related to new ideas for the regeneration area, and the majority of these ideas were located within the Kaiapoi East and Kaiapoi South regeneration areas.

'Ideas' Flags

Given the proportion of 'idea' flags placed on the model was high, the following two graphs below show further analysis of the 'idea' flags. The first graph has separated the ideas into eight broad categories, and then the business and recreation categories are broken down again into types of businesses and recreational activities the students of St Patricks School would like to see within the regeneration areas.

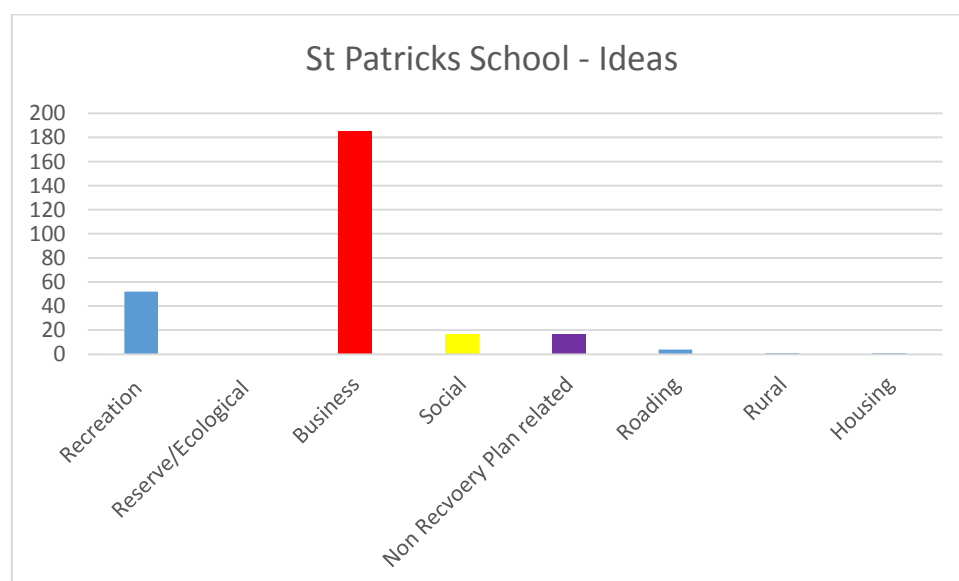


Figure 3: Types of ideas suggested

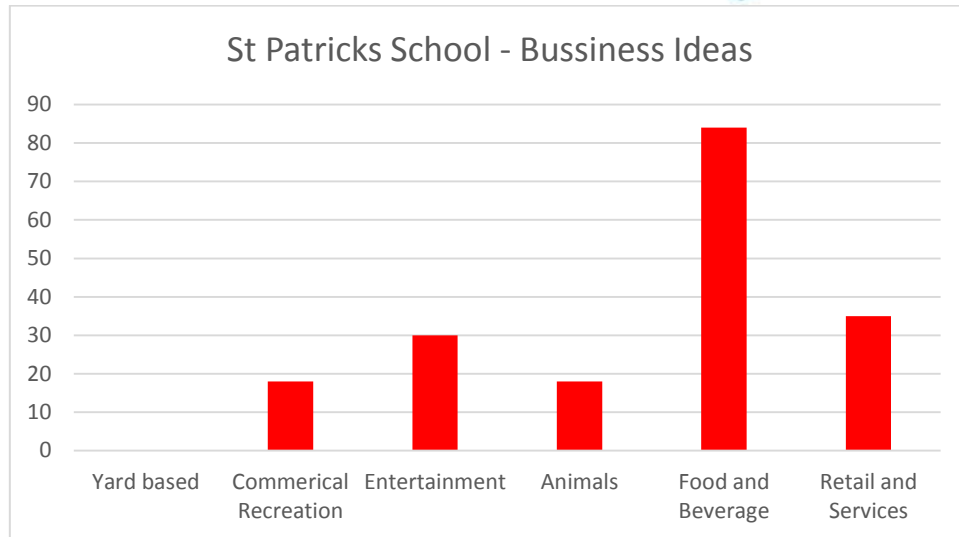


Figure 4: Types of business ideas suggested

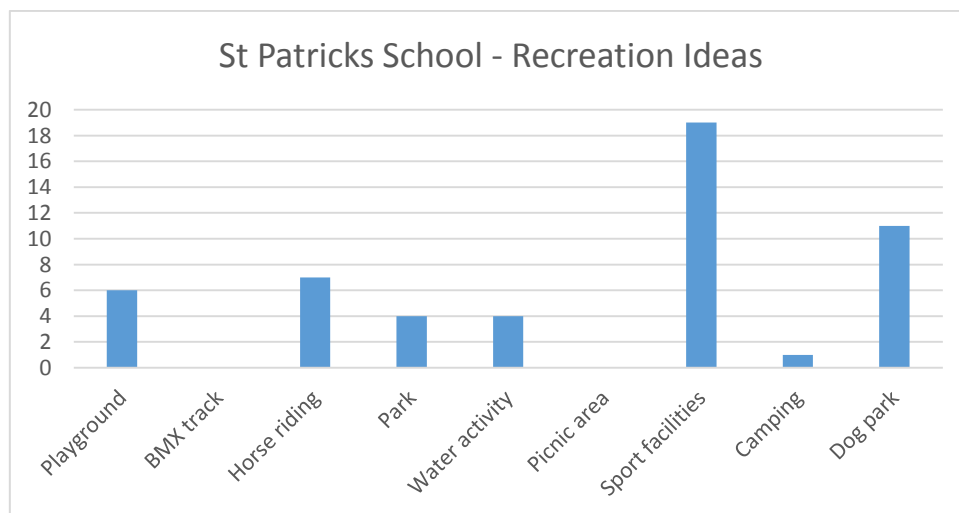


Figure 5: Types of recreational ideas suggested

'Idea flags' per area

The final graph below shows the total number of ideas submitted within each of the regeneration areas, broken-down into idea categories.

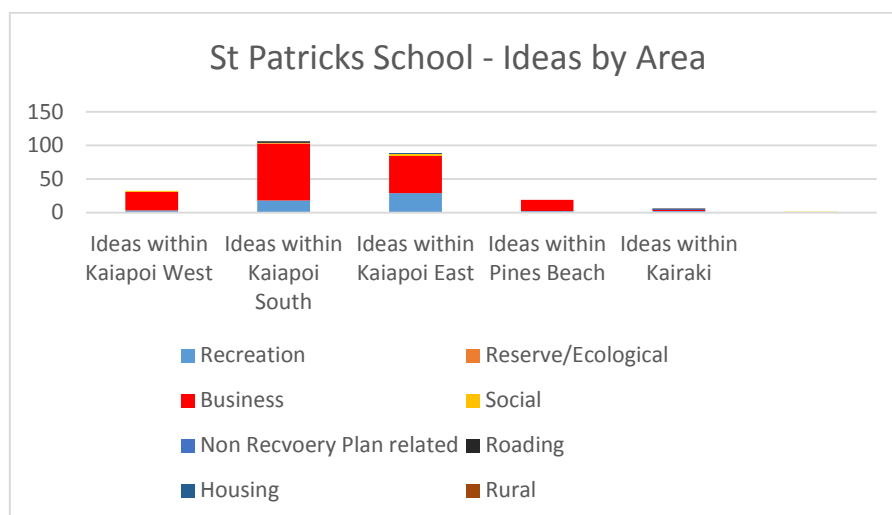


Figure 6: Total idea by area

2.2.2 Conclusion

The most common ideas suggested related to food and beverage retailers, a dog park, and sports facilities (details of the specific activities within each of these categories can be found in the glossary section). Most of these ideas were proposed to be located within the Kaiapoi South or Kaiapoi East regeneration areas. Overall, it is considered that these ideas are not incompatible to the recovery plan or Kaiapoi township. They tend to focus on ideas and concepts in detail more akin to the implementation stage, rather than the high level broad land use options as presented in the Recovery Plan. These finding suggest that generally St Patricks School students are happy with business growth and support recreation areas and opportunities.

2.3 Clarkville Primary School

Clarkville Primary School viewed the 3D model at the Ruataniwha Civic Service Centre on the 24th of February 2016. During the day 45 students ranging in age for 5 to 11 viewed the model and provided their feedback in the form of 427 flags.

2.3.1 Analysis

This section analyses the key trends and themes of the flags placed on the 3D model at the Clarkville Primary School.

Total Flags

The following two graphs show the total number of 'Likes' 'Ideas' and 'Concerns' that where placed on the 3D model; first as a total, and then as split between the five regeneration areas.

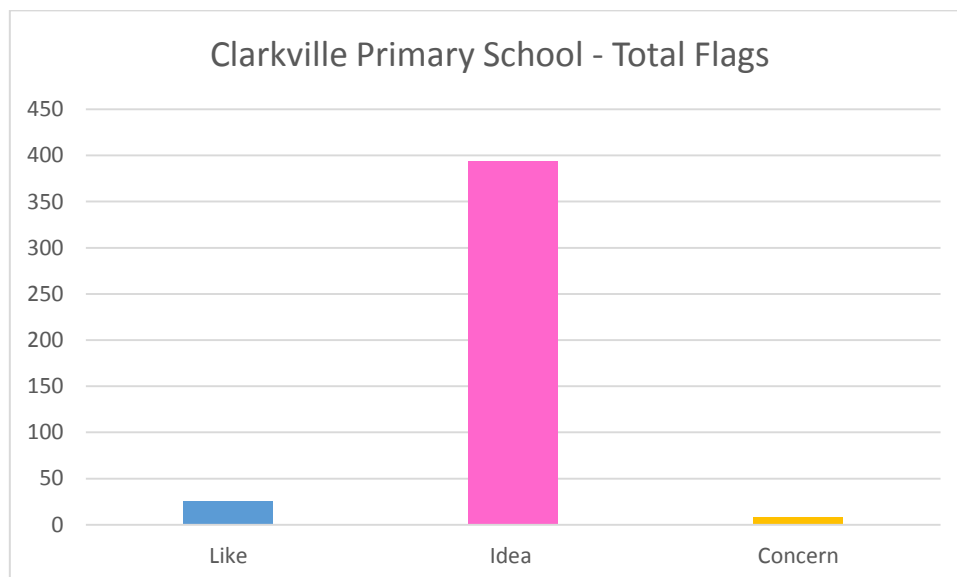


Figure 1: Total number of flags per category

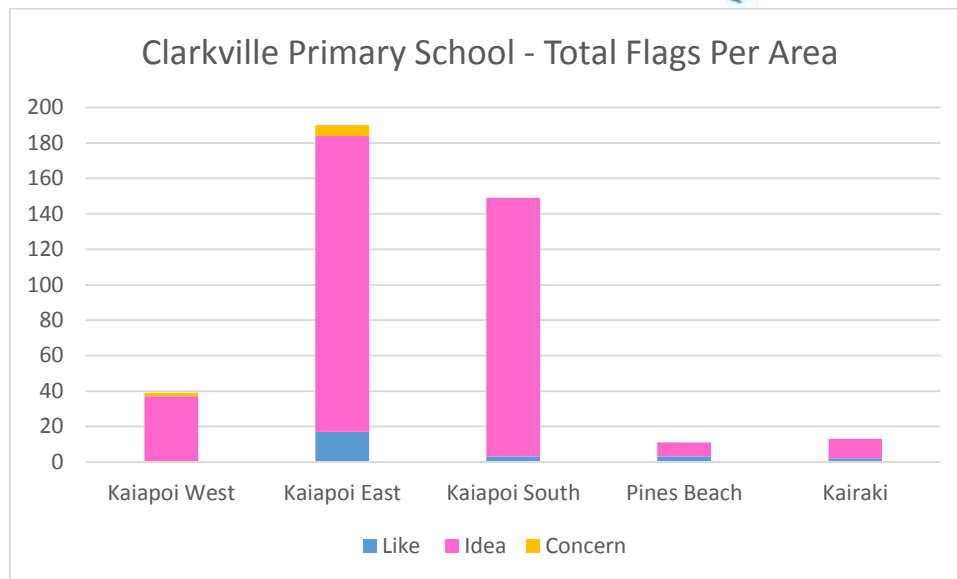


Figure 2: Total number of flags per area

The above graphs show that the vast majority of flags placed on the 3D model related to new ideas for the regeneration area, and the majority of these ideas were located within the Kaiapoi East and Kaiapoi South regeneration areas.

'Ideas' Flags

Given the proportion of 'idea' flags placed on the model was so high, the following two graphs below show further analysis of the 'idea' flags. The first graph has separated the ideas into eight broad categories, and then the business category has been broken down again into types of businesses the students of Clarkville Primary School would like to see within the regeneration areas.

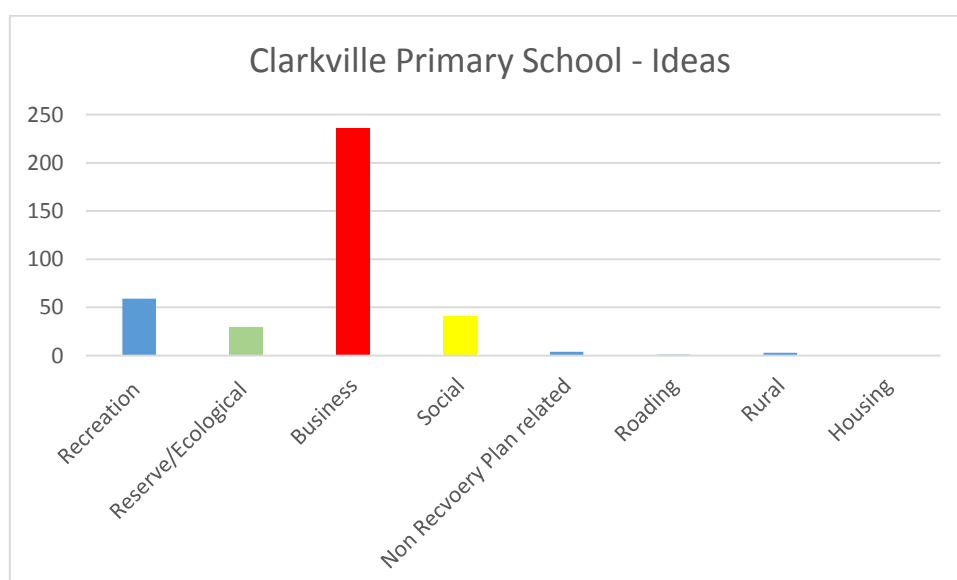


Figure 3: Types of ideas suggested

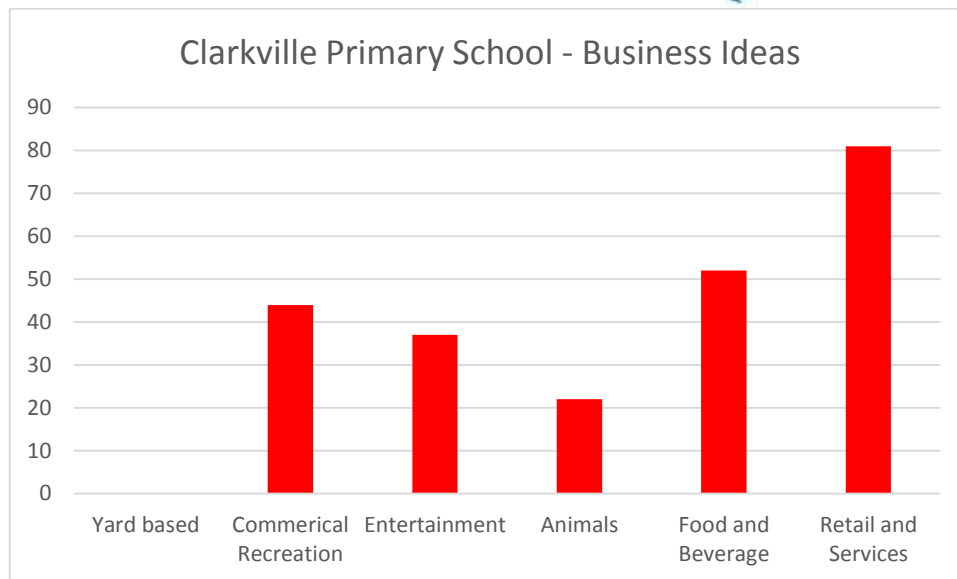


Figure 4: Types of business ideas suggested

'Idea flags' per area

The final graph below shows the total number of ideas submitted within each of the regeneration areas, broken-down into idea categories.

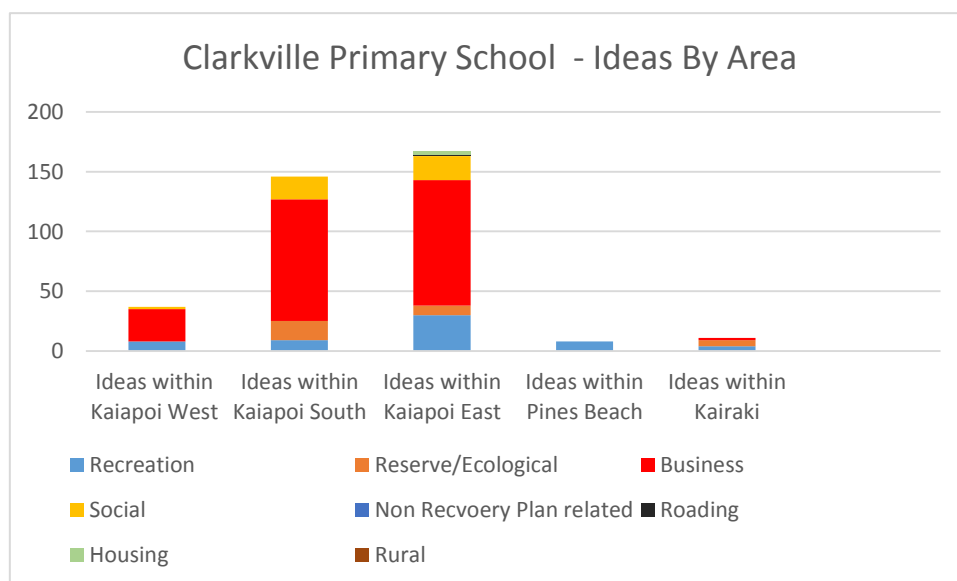


Figure 5: Total ideas by area

2.3.2 Conclusion

The most common ideas suggested related to food and beverage retailers, retail and services, and commercial recreation (details of the specific activities within each of these categories can be found in the glossary section). Most of these ideas were proposed to be located within the Kaiapoi South or Kaiapoi East regeneration areas. Overall, it is considered that these ideas are not incompatible to the recovery plan or Kaiapoi township. They tend to focus on ideas and concepts in detail more akin to the implementation stage, rather than the high level broad land use options as presented in the Recovery Plan. These finding suggest that generally Clarkville Primary School students are happy with business growth and support recreation areas and opportunities.

2.4 Kaiapoi North Primary School

The 3D model was located at Kaiapoi North Primary School for 2 days on the 15th and 16th of February 2016. During the two days 354 students ranging in age for 5 to 11 viewed the model and provided their feedback in the form of 905 flags.

2.4.1 Analysis

This section analyses the key trends and themes of the flags placed on the 3D model at the Kaiapoi North Primary School.

Total Flags

The following two graphs show the total number of 'Likes' 'Ideas' and 'Concerns' that were placed on the 3D model; first as a total, and then as split between the five regeneration areas.

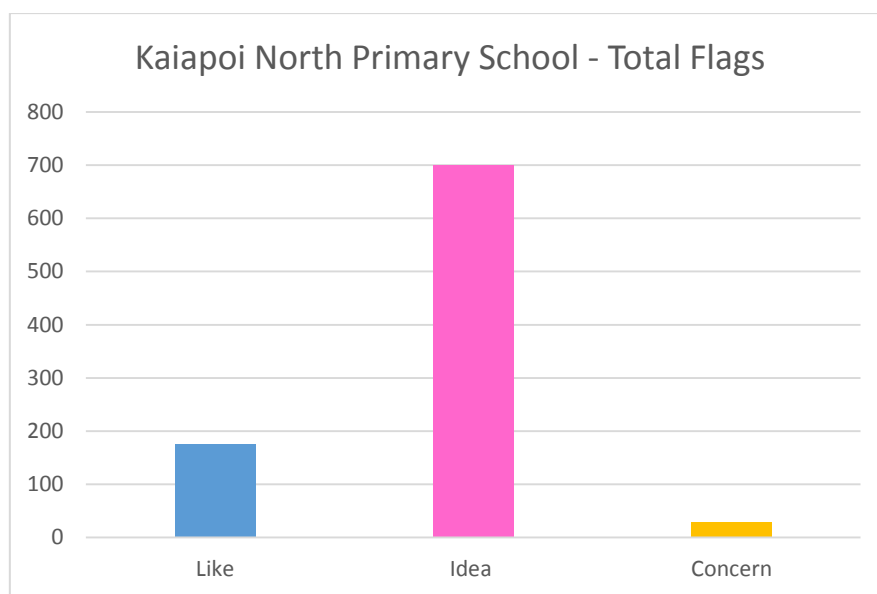


Figure 1: Total number of flags per category

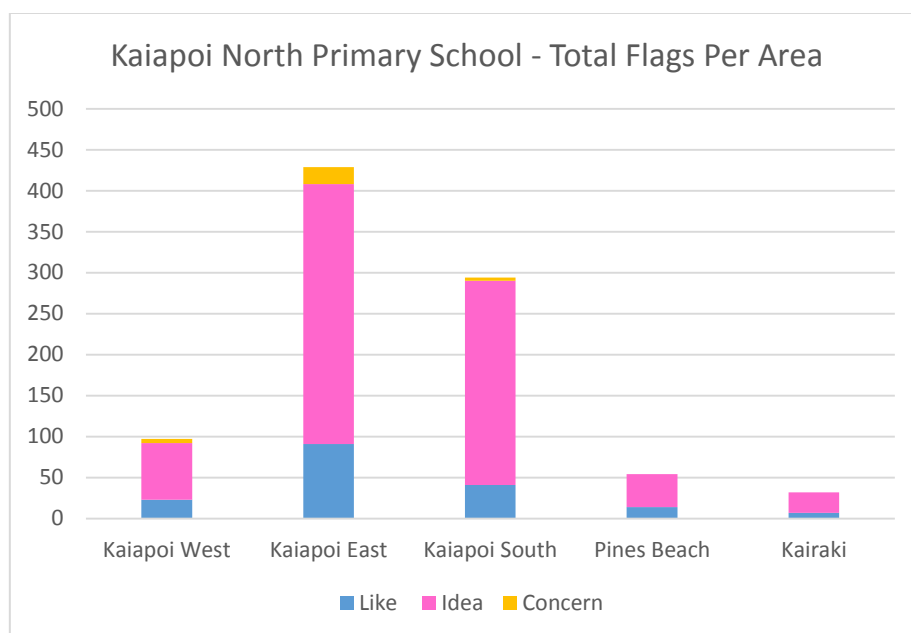


Figure 2: Total number of flags per area

The above graphs show that the vast majority of flags placed on the 3D model related to new ideas for the regeneration area, and the majority of these ideas were located within the Kaiapoi East and Kaiapoi South regeneration areas.

'Ideas' Flags

Given the proportion of 'idea' flags placed on the model was high, the following two graphs below show further analysis of the 'idea' flags. The first graph has separated the ideas into eight broad categories, and then the business and recreation categories are broken down again into types of businesses and recreational activities the students of Kaiapoi North School would like to see within the regeneration areas.

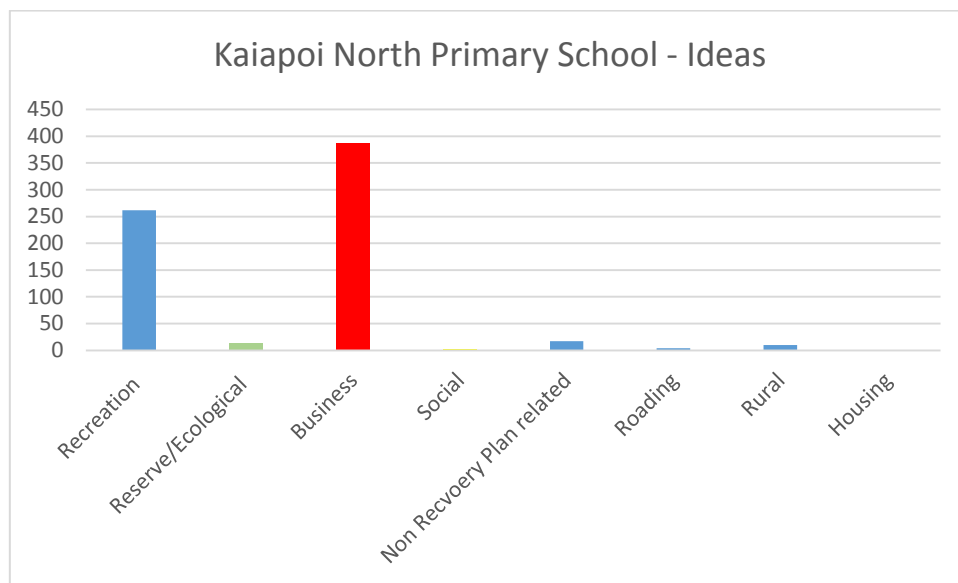


Figure 3: Types of ideas suggested

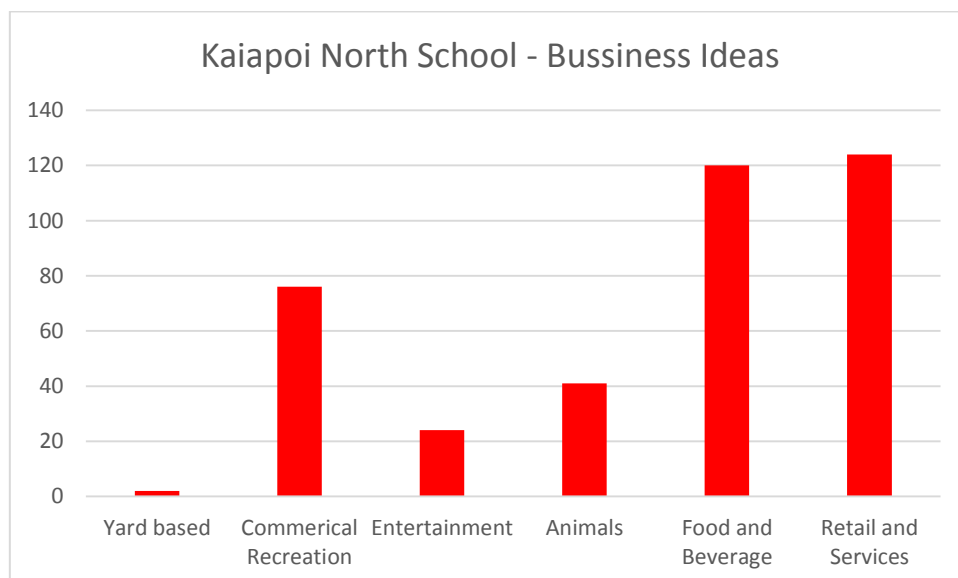


Figure 4: Types of business ideas suggested

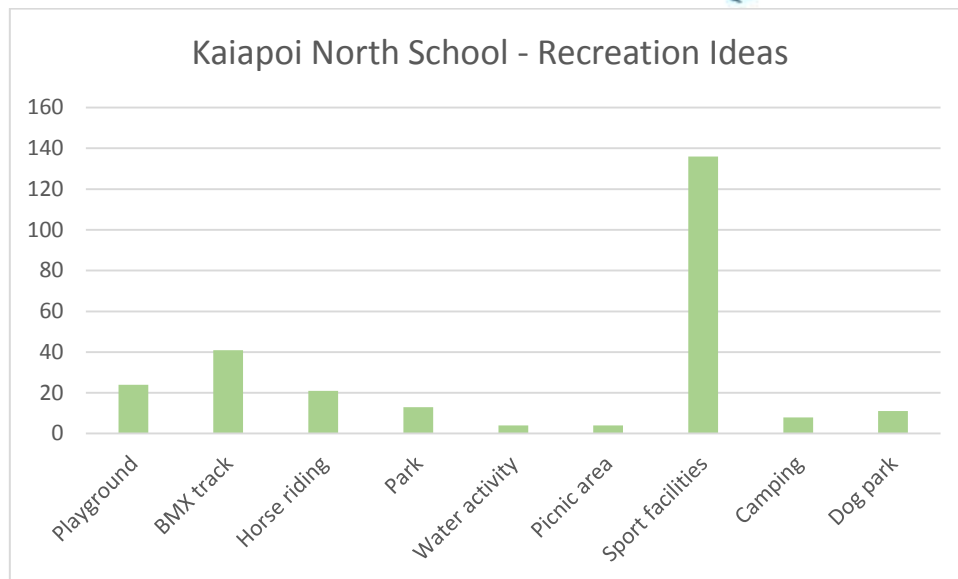


Figure 5: Types of recreation ideas suggested

'Idea flags' per area

The final graph below shows the total number of ideas submitted within each of the regeneration areas, broken-down into idea categories.

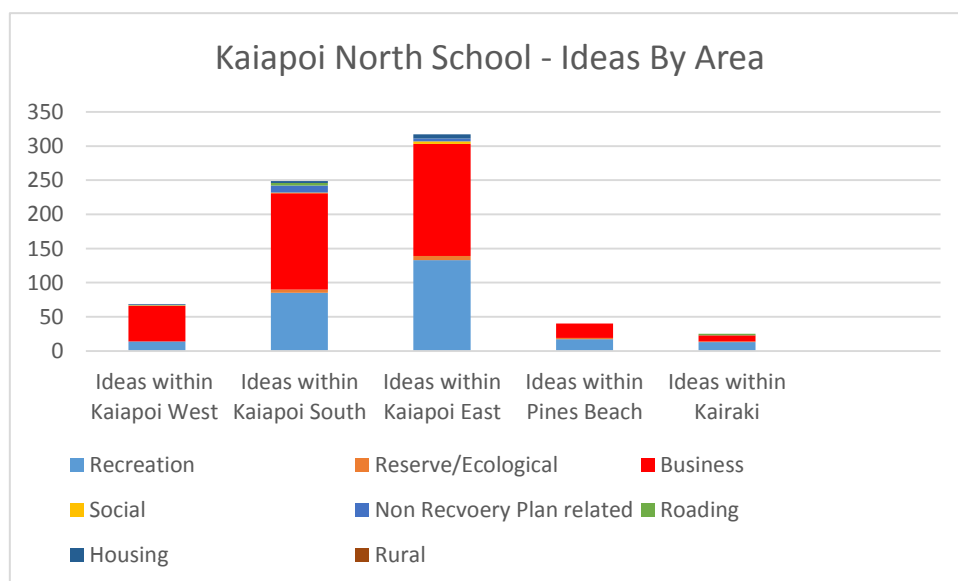


Figure 6: Total ideas by area

2.4.2 Conclusion

The most common ideas suggested related to food and beverage retailers, retail and services, and sports facilities (details of the specific activities within each of these categories can be found in the glossary section). Most of these ideas were proposed to be located within the Kaiapoi South or Kaiapoi East regeneration areas. Overall, it is considered that these ideas are not incompatible to the recovery plan or Kaiapoi township. They tend to focus on ideas and concepts in detail more akin to the implementation stage, rather than the high level broad land use options as presented in the Recovery Plan. These finding suggest that generally Kaiapoi North School students are happy with business growth and support recreation areas and opportunities.

2.5 Tuahiwi School

Tuahiwi School viewed the 3D model at the Ruataniwha Civic Service Centre on the 26th of February 2016. During the day 45 students ranging in age for 5 to 11 viewed the model and provided their feedback in the form of 229 flags.

2.5.1 Analysis

This section analyses the key trends and themes of the flags placed on the 3D model at the Tuahiwi School.

Total Flags

The following two graphs show the total number of 'Likes' 'Ideas' and 'Concerns' that were placed on the 3D model; first as a total, and then as split between the five regeneration areas.

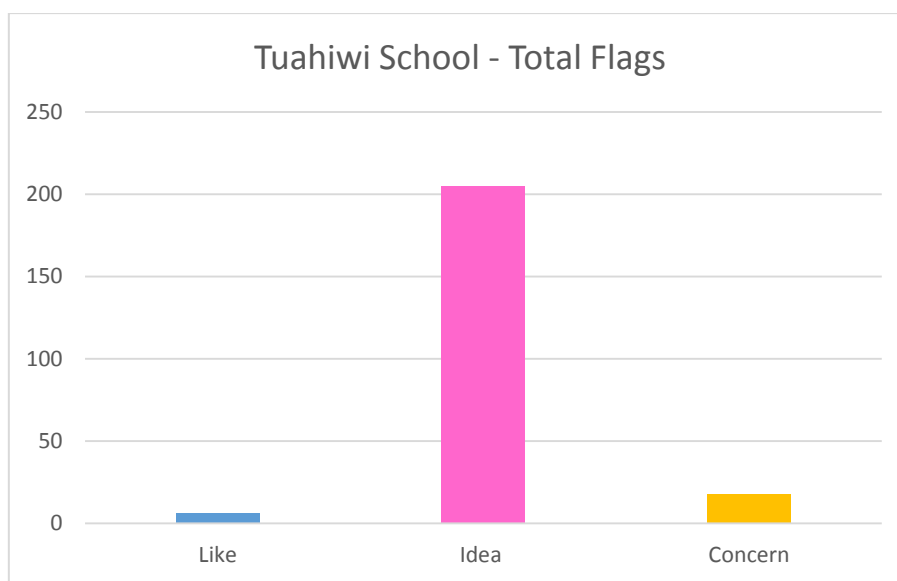


Figure 1: Total number of flags per category

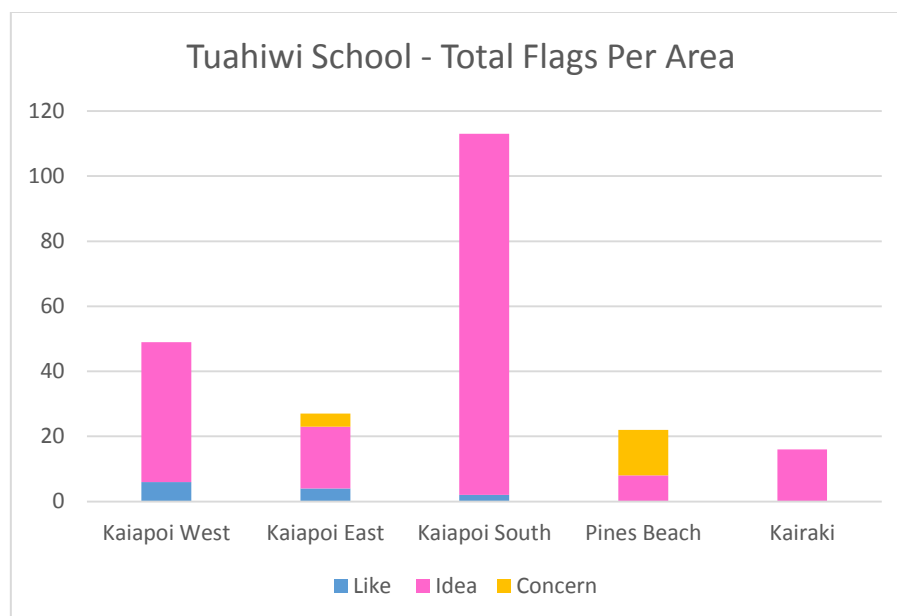


Figure 2: Total number of flags per area

The above graphs show that the vast majority of flags placed on the 3D model related to new ideas for the regeneration area, and the majority of these ideas were located within the Kaiapoi West and Kaiapoi South regeneration areas.

'Ideas' Flags

Given the proportion of 'idea' flags placed on the model was so high, the following two graphs below show further analysis of the 'idea' flags. The first graph has separated the ideas into eight broad categories, and then the business and recreation categories are broken down again into types of businesses and recreational activities the students of Tuahiwi School would like to see within the regeneration areas.

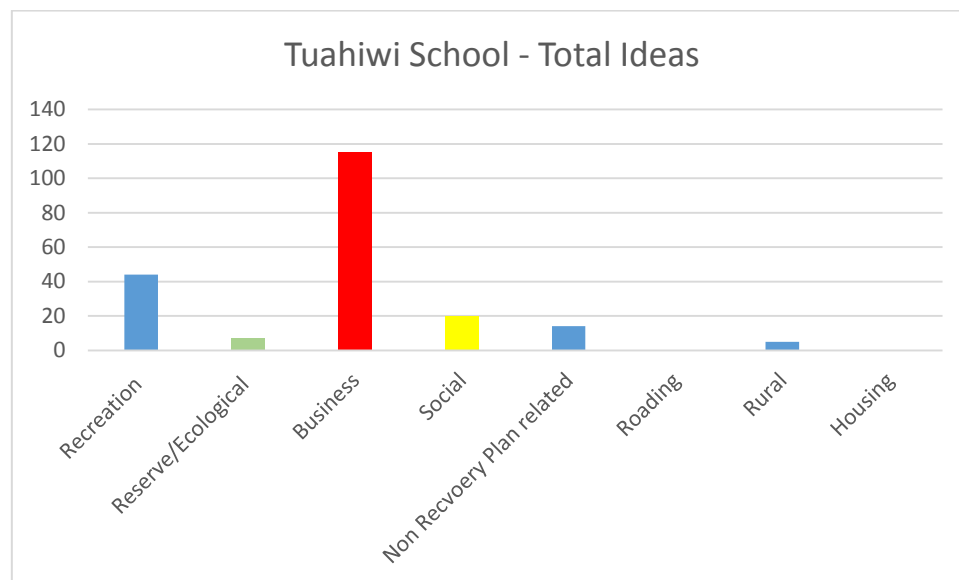


Figure 3: Total number of ideas per category

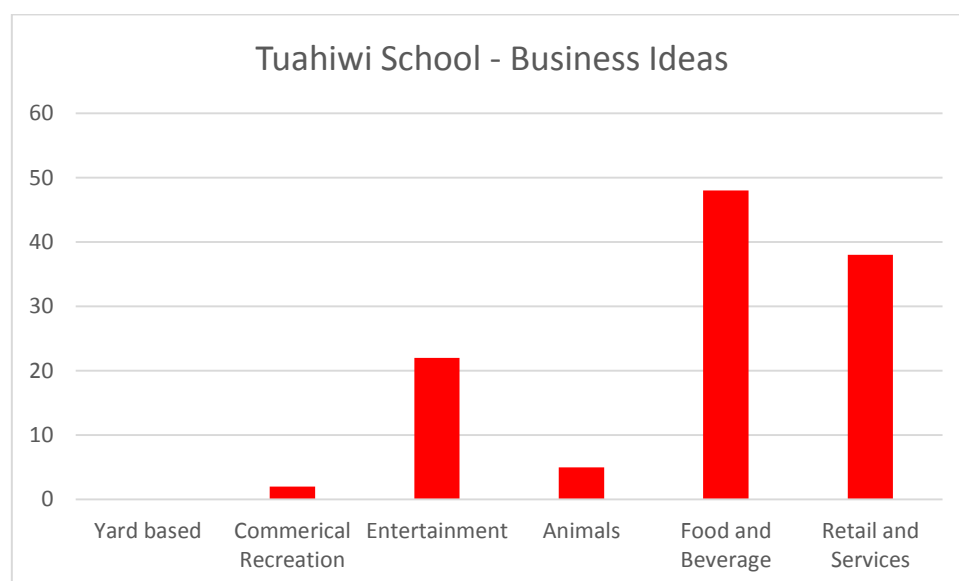


Figure 4: Types of business ideas suggested

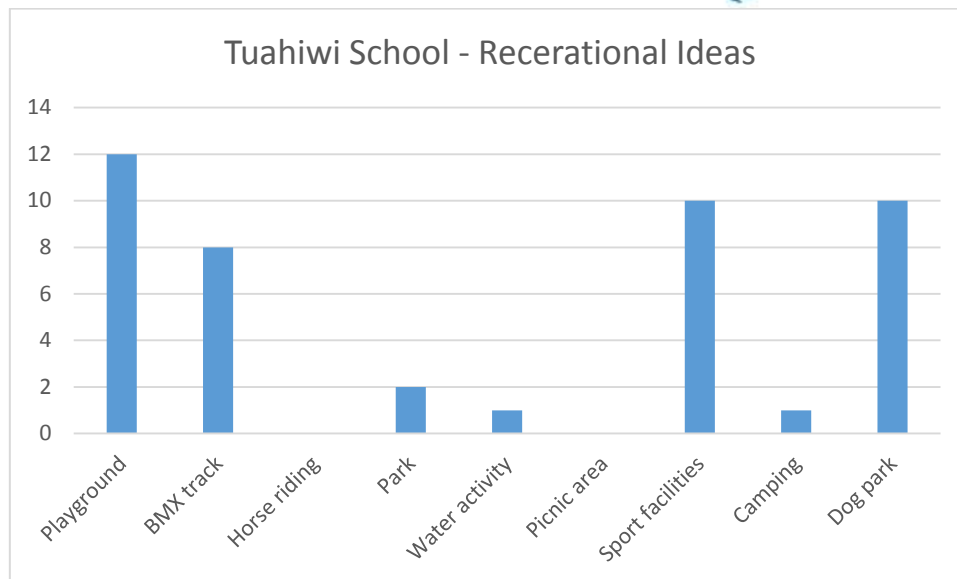


Figure 5: Types of recreation ideas suggested

'Idea flags' per area

The final graph below shows the total number of ideas submitted within each of the regeneration areas, broken-down into idea categories.

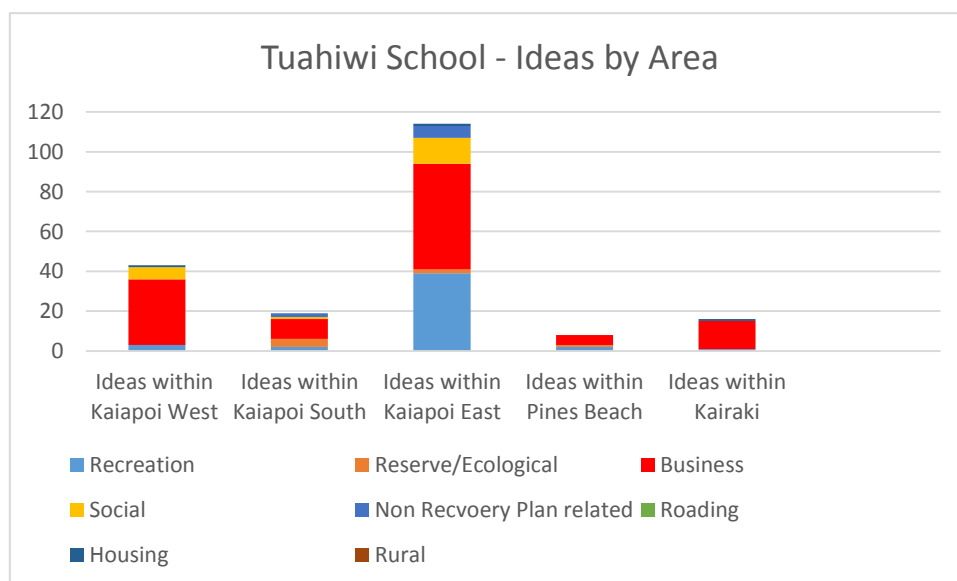


Figure 6: Total ideas by area

2.5.2 Conclusion

The most common ideas suggested related to food and beverage retailers, retail and services, sports facilities, playgrounds, and BMX tracks (details of the specific activities within each of these categories can be found in the glossary section). Most of these ideas were proposed to be located within the Kaiapoi South regeneration area. Overall, it is considered that these ideas are not incompatible to the recovery plan or Kaiapoi township. They tend to focus on ideas and concepts in detail more akin to the implementation stage, rather than the high level broad land use options as presented in the Recovery Plan. These finding suggest that generally Tuahiwi School students are happy with business growth and support recreation areas and opportunities.

2.6 Kaiapoi Borough Primary School

The 3D model was located at Kaiapoi Borough Primary School for 2 days from the 29th of February to the 1st of March 2016. During the 2 days 150 students ranging in age for 5 to 11 viewed the model and provided their feedback in the form of 724 flags.

2.6.1 Analysis

This section analyses the key trends and themes of the flags placed on the 3D model at the Kaiapoi Borough Primary School.

Total Flags

The following two graphs show the total number of 'Likes' 'Ideas' and 'Concerns' that were placed on the 3D model; first as a total, and then as split between the five regeneration areas.

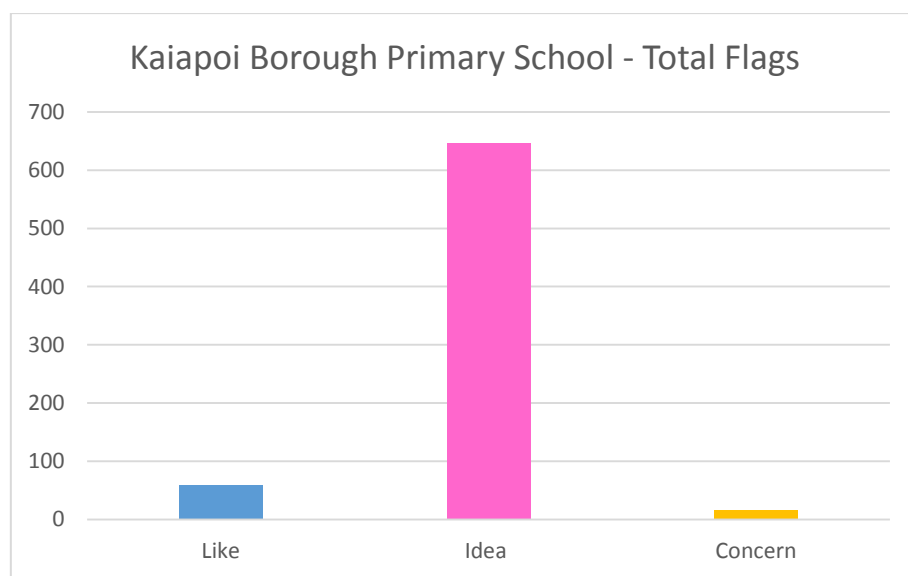


Figure 1: Total number of flags per category

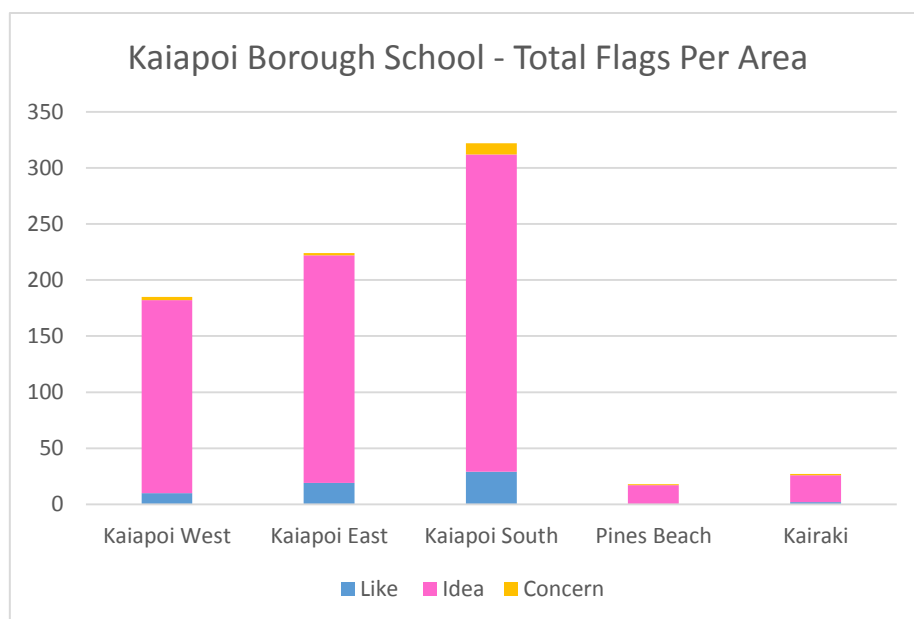


Figure 2: Total number of flags per area

The above graphs show that the vast majority of flags placed on the 3D model related to new ideas for the regeneration area, and the majority of these ideas were located within the Kaiapoi West, Kaiapoi East, and Kaiapoi South regeneration areas.

'Ideas' Flags

Given the proportion of 'idea' flags placed on the model was high, the following two graphs below show further analysis of the 'idea' flags. The first graph has separated the ideas into eight broad categories, and then the business and recreation categories are broken down again into types of businesses and recreational activities the students of Kaiapoi Borough School would like to see within the regeneration areas.

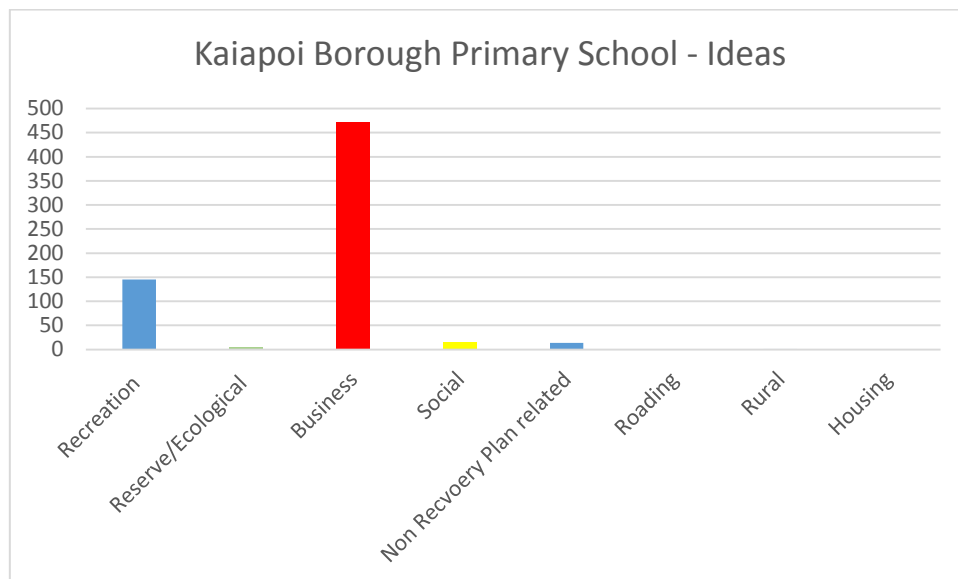


Figure 3: Total number of ideas per category

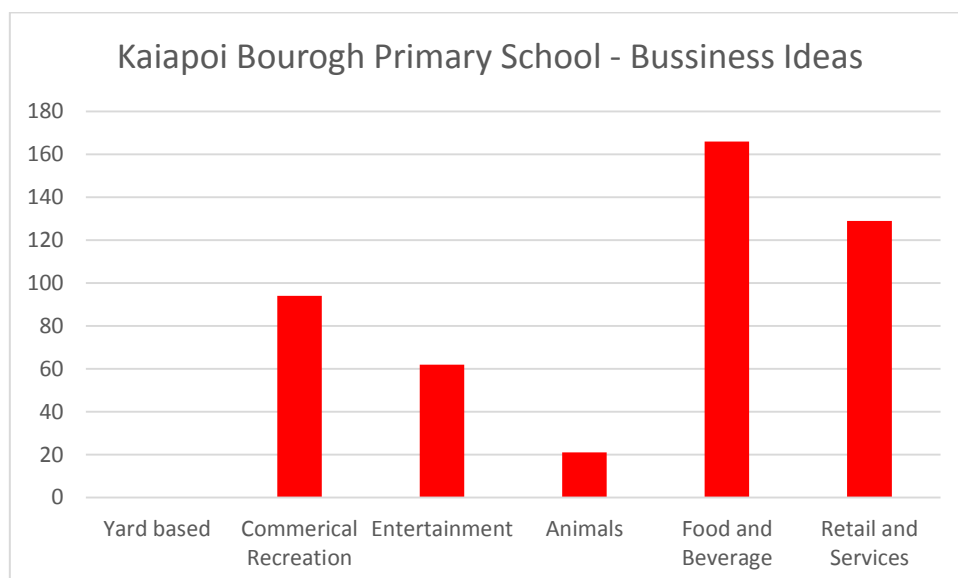


Figure 4: Types of business ideas suggested

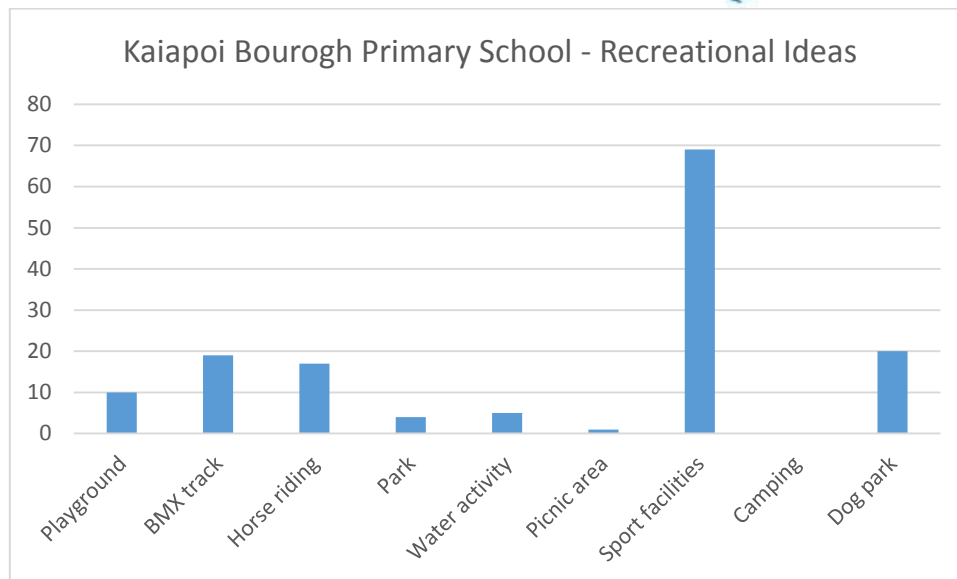


Figure 5: Types of recreation ideas suggested

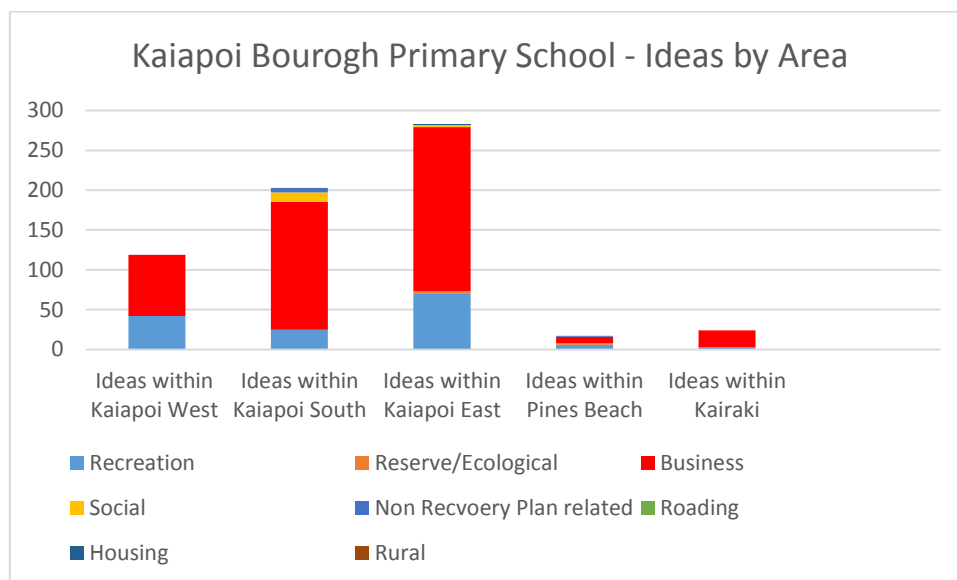


Figure 6: Total ideas by area

2.6.2 Conclusion

The most common ideas suggested related to food and beverage retailers, and retail and services, (details of the specific activities within each of these categories can be found in the glossary section). Most of these ideas were proposed to be located within the Kaiapoi South, Kaiapoi East and Kaiapoi West regeneration areas. Overall, it is considered that these ideas are not incompatible to the recovery plan or Kaiapoi township. They tend to focus on ideas and concepts in detail more akin to the implementation stage, rather than the high level broad land use options as presented in the Recovery Plan. These finding suggest that generally Kaiapoi Borough Primary School students are happy with business growth and support recreation areas and opportunities.

2.7 Woodend Primary School

The 3D model was located at Woodend Primary School for two days on the 17th and 18th of February 2016. During the 2 days 228 students ranging in age for 5 to 11 viewed the model and provided their feedback in the form of 894 flags.

2.7.1 Analysis

This section analyses the key trends and themes of the flags placed on the 3D model at the Woodend Primary School.

Total Flags

The following two graphs show the total number of 'Likes' 'Ideas' and 'Concerns' that were placed on the 3D model; first as a total, and then as split between the five regeneration areas.

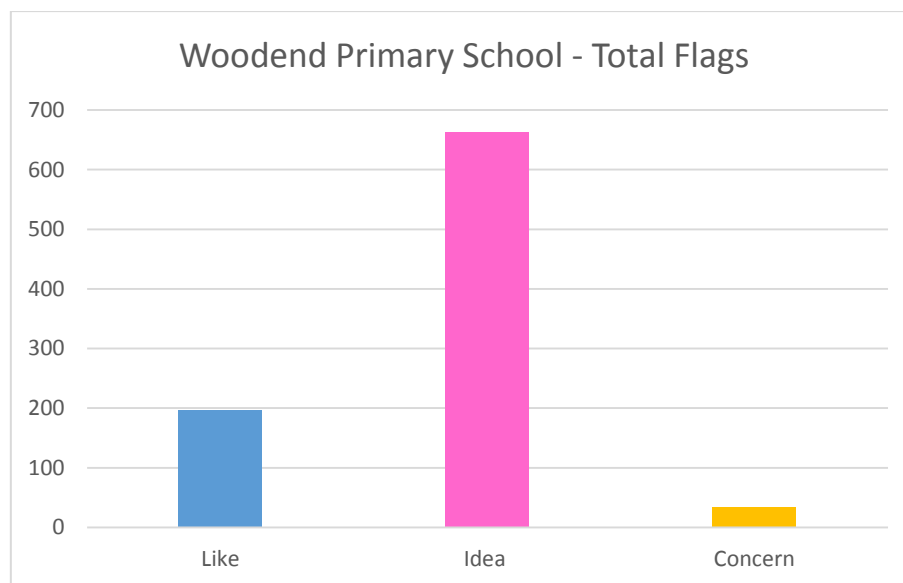


Figure 1: Total number of flags per category

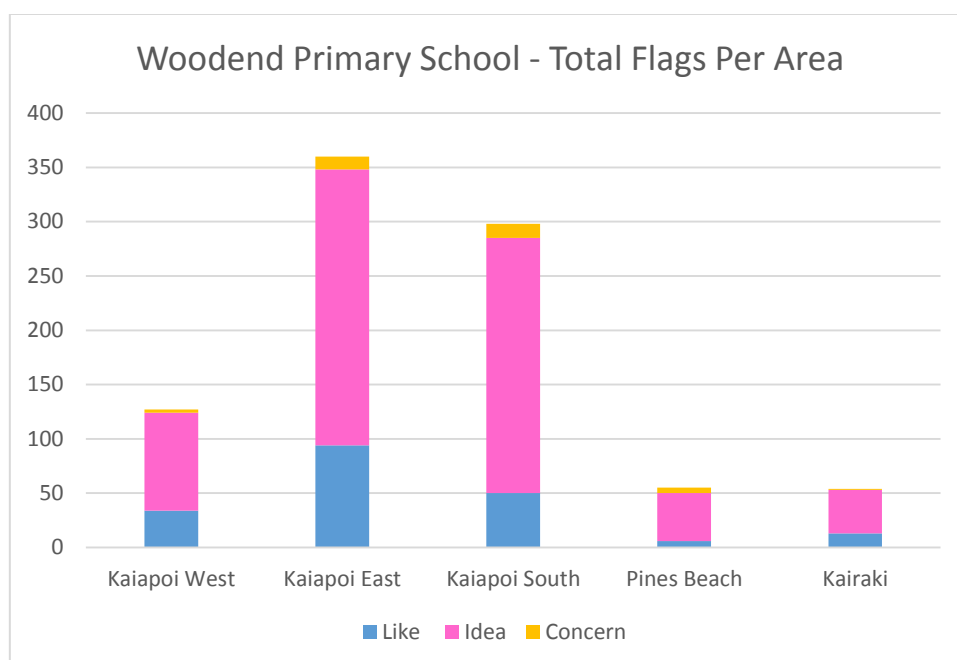


Figure 2: Total number of flags per area

The above graphs show that the vast majority of flags placed on the 3D model related to new ideas for the regeneration area, and the majority of these ideas were located within the Kaiapoi East, and Kaiapoi South regeneration areas.

'Ideas' Flags

Given the proportion of 'idea' flags placed on the model was so high, the following two graphs below show further analysis of the 'idea' flags. The first graph has separated the ideas into eight broad categories, and then the business and recreation categories are broken down again into types of businesses and recreational activities the students of Woodend Primary School would like to see within the regeneration areas.

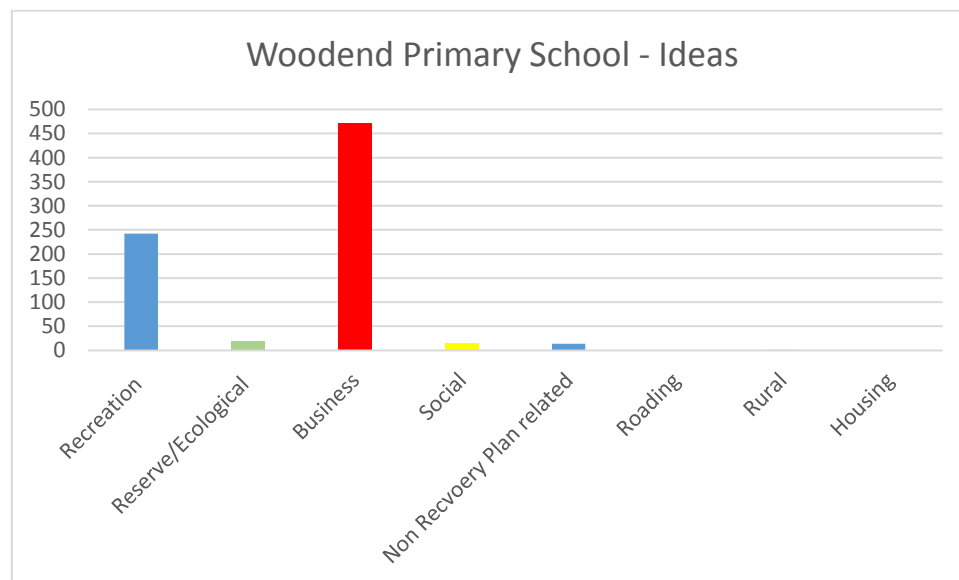


Figure 3: Total number of ideas per category

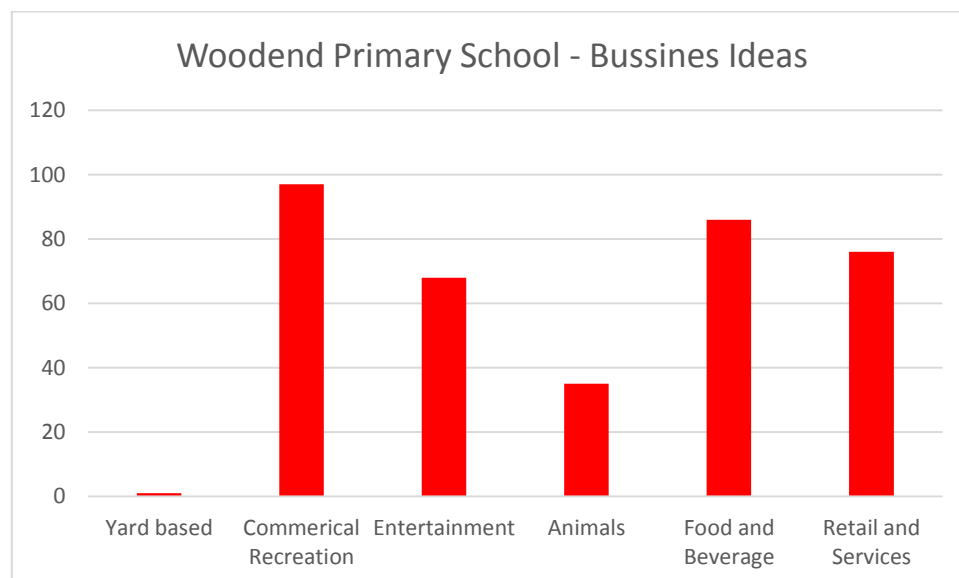


Figure 4: Types of business ideas suggested

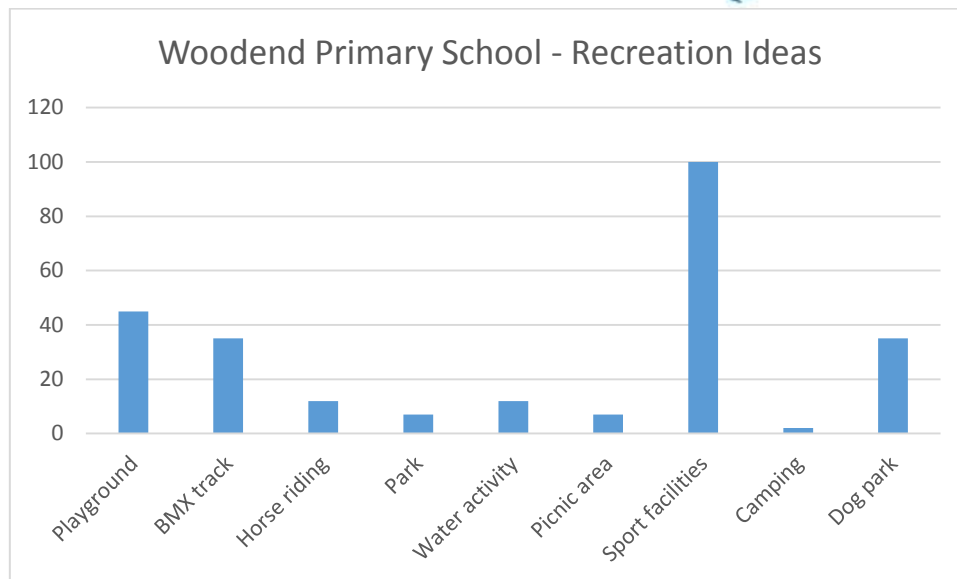


Figure 5: Types of recreational ideas suggested

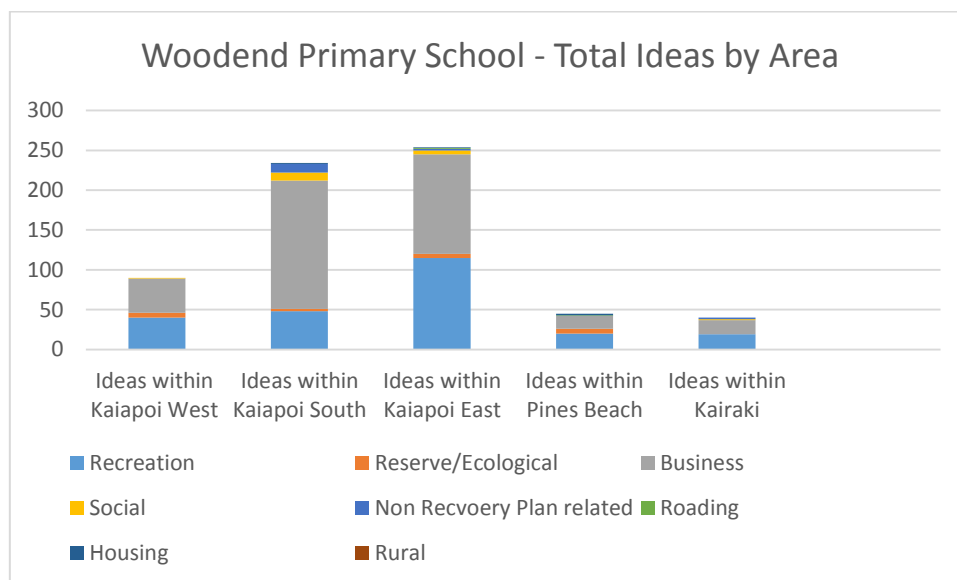


Figure 6: Total ideas by area

2.7.2 Conclusion

The most common ideas suggested related to food and beverage retailers, retail and services, commercial recreation, and sports facilities, (details of the specific activities within each of these categories can be found in the glossary section). Most of these ideas were proposed to be located within the Kaiapoi South and Kaiapoi East regeneration areas. Overall, it is considered that these ideas are not incompatible to the recovery plan or Kaiapoi township. They tend to focus on ideas and concepts in detail more akin to the implementation stage, rather than the high level broad land use options as presented in the Recovery Plan. These finding suggest that generally Woodend Primary School students are happy with business growth and support recreation areas and opportunities.

2.7.3 Overall conclusions and general trends

The key trends from the 3D model data were:

- There were very few land uses proposed within the Residential Red Zone Recovery Plan which the students 'liked' or were 'concerned with'. The majority of the 'likes' were in relation to the sports and recreational areas in Kaiapoi East (Areas 9 and 10), while the majority of the 'concerns' were in response to food and beverage ideas suggested adjacent to the Kaiapoi South regeneration area.
- The majority of the ideas related to the Kaiapoi East and Kaiapoi South regeneration areas.
- Most of the ideas proposed by the students related to business or recreation activities and were consistent with the land uses proposed within the preliminary draft recovery plan. Given the detail of ideas that were suggested, it is considered that these ideas can be considered when undertaking the master planning process for the specific projects.
- The most popular business ideas were 'commercial recreation' (go carts; mazes; theme parks; ice skating rinks; mini golf; rock climbing wall, etc), 'entertainment' (Opera house; time zone; movie theatre;), 'food and beverage' and 'retail services'.
- The most popular recreation type was 'sports facilities' (dance club; netball courts; skate park; rugby stadium; swimming pools; dodge ball; cricket nets and pitch; fitness track; indoor soccer; scooter park; performance stage; baseball stadium; indoor skating rink).

2.8 Glossary

(Business) Animals	Zoo; Animal shelter; Horse riding; Petting zoo; Bee farm; Salmon farm; Endangered animal's sanctuary; Vet; aquarium; Mini spider zoo; SPCA;
(Business) Commercial Recreation	Go Carts; Horror maze; Corn maze; Theme parks; Water park; Ice skating rink; Mini golf; 10 pin bowling; Hot pools; Golf driving range; Boat hire; Rock climbing wall; Gym; Laser tag; Bungy jumping; Adrenaline forest (high ropes); Car racing track; Inflatable world; Pedal car rental; Paintball; Chipmunks; Children's train;
(Business) Entertainment	Opera house; Time zone; Retro games; Movie theatre; EB games; Strip club; Lazer strike;
(Business) Food and beverage	Dairy; Fish and chip shop; Chocolate factory; Dunkin donut; Krispy Kream; Dairy; Pizza Hut; KFC; Burger Fuel; Wendy's; Burger King; McDonalds; Ice Cream Shop; Lolly shop; Coffee Shop; Subway; Dominos; Pita pit; Café; Bar; Sushi; Salad Shop; Starbucks; Couplands;
(Business) Retail and services	Surf Shop; Cosmic corner; The Warehouse; Arcade; Comic Store; Mall; Warehouse Stationery; Lush; Petrol Station; Smiggle; Sterling Sports; Rebel Sports; Doctor; Dentist; Westpac; Hunting and Fishing; Motel; Toy world; Pac n Save; Hotel; Retirement home; bank; Medical centre; Bike Barn; Art shop; Hospital; Smiths City; Sports mania; Motocross shop; Spa;
(Business) Yard Based	Monster truck place; Car yard; Garden centre
Ecological	Wildlife reserve; Bird watching;
Non-recovery Plan Related	Boat ramps; Clean river; Boating; Water turbine; New footbridge over river; Information board on fish species; Wharf to jump from; Airport; Train station
(Recreation) Sports Facility	Motor cross track; Sports fields; Baseball diamond; Rugby field; Soccer; Tennis courts; Gymnastics centre; Dance club; Netball courts; Go kart track; Horse stadium; Skate park; Public toilet; Hunting and fishing; Rugby stadium; Swimming pools; Dodge ball; Cricket nets and pitch; Fitness track; Indoor soccer; Bull riding; Golf club; Trampolining; Scooter park; Performance stage; Baseball stadium; Indoor skating rink; Dog training area; Touch rugby;
(Recreation) Water Activity	Natural water features; Lakes; Fishing pond; Duck pond;
(Reserve) Gardens	Nursery; Greenhouse; Botanic gardens; Buffer planting; Rose garden; Community garden;
Roading	Existing road conditions; More car parking needed for more shops; Bus stop;
Social	Markets; A and P Show Grounds; Town hall; Community theatre; Church; Disco Hall; Fishing competition; Fair; Music hall; Circus; Light show; Museum; Big Christmas tree with lights for Christmas; Community education centre; New college; Wheel chair accessibility; Disabled people centre; Salvation Army;