




NZ NATIVE PLANT RESEARCH.

Development of research, products & services that are beneficial to the environment and urban/ rural communities of NZ.



NATIVE PLANT | R & D.

- 
- ENVIRONMENTAL BENEFITS.
 - SOCIAL BENEFITS FOR COMMUNITIES.
 - NATIVE PLANT SERVICES.
 - HARAKEKE PRODUCT DEVELOPMENT.
 - RESEARCH TO DEVELOP POTENTIAL IN NATIVE PLANTS.
 - INTEGRATED FUNDING.
 - INTERNATIONAL RECOGNITION.



NATIVE PLANT INDUSTRY: ENVIRONMENTAL BENEFITS.

- ▶ SOIL RESEARCH - REMOVE NITRATES FROM SOIL.
- ▶ WATER CARE: NITRATES FROM WATER.
- ▶ PLANTING MORE NATIVE TREES WILL SEE THE RETURN OF MORE NATIVE FLORA AND FAUNA.
- ▶ DECREASE DESERTIFICATION OF THE LANDSCAPE.
- ▶ BIODIVERSITY INCREASED REGENERATIVE PLANTING WILL HELP TOWARDS CLIMATE CHANGE SOLUTIONS.
- ▶ MORE COMMUNITIES HAVE ENVIRONMENTAL KNOWLEDGE & EDUCATION WHICH MEANS MORE AWARENESS.
- ▶ SCHOOL EDUCATION BASED IN PRACTICAL LEARNING ON THE LAND (RIPARIAN PLANTING, BIODIVERSITY).



SOCIAL BENEFITS FOR COMMUNITIES WORKING WITH NATIVE PLANTS.

- BRINGING PEOPLE BACK TO THE LAND.
- MĀORI - SHARING ANCESTRAL KNOWLEDGE TO GENERATIONS.
- SELF SUSTAINING COMMUNITIES.
- GROWING MANA THROUGH KNOWLEDGE & VALUE.
- BUILDING SELF WORTH THROUGH PRACTICAL APPLICATION OF KNOWLEDGE OF LAND & PLANT BASED ACHIEVEMENTS.
- PRACTICAL EDUCATION OF NATIVE PLANTS & BIODIVERSITY FOR CHILDREN & YOUTH.
- STRENGTHENING COMMUNITIES.
- FACTUAL EVIDENCE TREES IMPROVE HEALTH/ MENTAL HEALTH.
- FACT TREES INCREASE PROPERTY PRICES.



DEVELOPMENT OF NATIVE PLANT SERVICES.

- ▶ KAITIAKI: GROWING, PLANTING & NATIVE PLANT FORESTRY MAINTENANCE – HAPU / IWI LEVEL.
- ▶ SMALL INDUSTRY PROCESSING /ENGINEERING & MAINTENANCE ETC.
- ▶ PAPERS/ TEXTILES/ BUILDING MATERIALS.
- ▶ HEALTH & BEAUTY INDUSTRY.
- ▶ EDUCATION: KUIA & KAUMATUA BASED PLANT KNOWLEDGE.
- ▶ HOUSING.
- ▶ COMMUNITIY RONGOA HEALTH CENTRES.

- ▶ INTEGRATING INTO WIDER URBAN & RURAL COMMUNITIES.



HARAKEKE: PRODUCT DEVELOPMENT.

- FIBRES – TO SUSTAINABLE TEXTILES LIKE LINEN.
- BIO WASTE FROM THIS PROCESS TO NON WOVEN MATERIALS.
- FIBRES – DEV. TO SUSTAINABLE & HEALTHY BUILDING MATERIALS EG. EURO FLAX DEV AS BIO COMPOSITE TO REPLACE FIBRE GLASS ETC.
- PLANT FIBRES ALTERNATIVES TO PLASTIC.
- FIBRES – NATURAL CARPETS/ WALL COVERINGS & FURNISHING MATERIALS.
- FLAX SEED OIL – HEALTH & BEAUTY BENEFITS.
- FLAX LEAF GEL – HEALTH & BEAUTY (NZ'S ALOE VERA).



EUROPEAN FLAX CROPS.

- 
- ▶ ORGANICALLY GROWN IN CYCLES (EUROPE) WITH OTHER FOOD CROPS GIVE & TAKE WITH THE SOIL.
 - ▶ SUSTAINABLE CROP, GOOD FOR SOIL, NO CHEMICALS, LESS WATER, LESS ROOM REQUIRED TO GROW THAN HEMP.
 - ▶ IN EUROPE ALREADY DEVELOPING SUSTAINABLE FIBRE INDUSTRY – FINE LINEN TEXTILES.
 - ▶ OTHER PRODUCTS – HEALTH FOODS - LINSEED SEEDS & OILS.
 - ▶ BUILDING INDUSTRY - LINSEED OIL FOR TREATING WOOD.
 - ▶ EUROPE DEVELOPING NEW TECHNOLOGY AROUND THIS PLANT SUSTAINABLE & HEALTHY BUILDING MATERIALS.
 - ▶ NEW BIOCOMPOSITES – REPLACING FIBREGLASS & ALTERNATIVES TO PLASTIC ETC.
 - ▶ HAS BEEN GROWN HERE IN THE PAST.
 - ▶ SUCCESSFULLY GROWN IN NZ ORGANIC LINSEED OILS – (HEALTH INDUSTRY).



FURTHER NZ NATIVE PLANT RESEARCH.

- ▶ FURTHER DEVELOPMENTS OF NATIVE PLANT SPECIES NEED TO BE RESEARCHED.
- ▶ WATER & LAND CARE.

EG. CROWN RESEARCH CENTRE: MANUKA ALSO REMOVES NITRATES / BENEFICIAL HONEY.

- ▶ WHAT OTHER BENEFICIAL PROPERTIES & POTENTIAL PRODUCTS ARE HELD WITHIN NATIVE PLANTS & TREES?
- ▶ BIGGEST ISSUE: PROCESSING CENTRES FOR PLANT FIBRES NEED TO BE ESTABLISHED/ DEVELOPED IN ORDER TO PROGRESS A PLANT BASED INDUSTRY.

I.E). MUKA LTD – HARAKEKE EXTRACTION MACHINE.

- DIFFERENT PLANT FIBRES REQUIRE DIFFERENT PROCESSING METHODS.

E.G). LIBECO – BELGIAN FINE LINEN PROCESSING CENTRE THAT IS ZERO WASTE & CARBON NEUTRAL.



INTEGRATED FUNDING OPPORTUNITIES.

- ▶ THIS NATIVE PLANT RESEARCH & DEVELOPMENT COULD BE INTERGRATED WITH OTHER GOVERNMENT INITIATIVES ALREADY AVAILABLE NOW & IN THE FUTURE.
- ▶ CITIES/ URBAN BASED POTENTIAL AS WELL AS RURAL COMMUNITIES.
 - EG. AUCKLAND CITY COUNCIL – LOW CARBON ENVIRONMENTAL SERVICES & ATEED.
 - TPK PROVINCIAL FUND.
 - 10 BILLION TREES INITIATIVE.



INTERNATIONAL RECOGNITION & OPPORTUNITIES.

- ▶ NZ IS KNOWN AS A CLEAN GREEN AND PRISTINE COUNTRY. RECENT YEARS HAVE EMPHASISED AGRICULTURAL ISSUES. THIS IS AN OPPORTUNITY TO NOT ONLY BUILD SOLUTIONS BUT ALSO CREATE AN INDUSTRY THAT IS ACTUALLY GOOD FOR THE ENVIRONMENT AND THE PEOPLE.
 - ▶ BY INTEGRATING PROCESSING CENTRES FOR ALL PLANT BASED MATERIALS IE. EUROPEAN FLAX, HEMP, HARAKEKE ETC. IT COULD OPEN UP MORE OPPORTUNITY TO DEVELOP TECHNOLOGIES.
 - ▶ WE HAVE THE OPPORTUNITY TO BE WORLD LEADERS IN ENVIRONMENTAL & SOCIAL CHANGE THROUGH INDIGENOUS KNOWLEDGE. WORKING TOGETHER IN TRUE PARTNERSHIP.
 - ▶ CREATING A BOOST FOR TOURISM THROUGH PRODUCTS & SERVICES.
- 