Te Kahui Manu Hokai

National Maori GIS Association

2012 National Maori

GIS Conference Programme

9 – 11 May

Rotorua

www.tekahuimanuhokai.org.nz

He Mihi

E nga iwi,
E nga mana,
E nga reo,
E nga karanga maha,
E nga mataa waka katoa o te motu,
Tena koutou katoa

On behalf of Te Kahui Manu Hokai, it is my pleasure to welcome you all to the third National Maori GIS conference 2012 in Rotorua.

This year the conference continues to build on the relationships of tangata whenua with their ancestral lands and the way GIS enables iwi to articulate and express these relationships to whenua, to moana, to taonga and to each other.

We have a range of exciting presentations that highlight iwi initiatives, heritage protection, service provision and government programmes to support iwi aspirations.

We are pleased to announce that this years conference brings together over 100 delegates from all over Aotearoa, from Muriwhenua to Murihiku including representation across iwi, government agencies, Territorial Local Authorities (TLA's), non-government organisations (NGO's), service providers and those who have a strong interest in this kaupapa.

This year we are also fortunate to bring you a presentation via Videoconference from one of our indigenous Hawaiian GIS practitioners and tuakana from Te Moana Nui a Kiwa.

We hope you enjoy the conference and acknowledge all of our presenters, sponsors, supporters and delegates who have made this conference possible.

No reira e te iwi,
Naku te rourou, nau te rourou, ka ora ai te iwi

Nga mihi nui
Na matou te komiti Te Kahui Manu Hokai

Conference Programme

1: Kahuariki Hancock, CEO, Rangiwewehi Charitable Trust

Kahuariki Hancock has been involved with Iwi Development for a number of years. She is a Graduate of University of Auckland, Business School (2009) and Te Wananga o Raukawa, Maori and Management (1999). Throughout her extensive career, she has held management positions within the Health, Education and Training development sectors. She is currently the Chief Executive Officer of the Rangiwewehi Charitable Trust.

The marvels of GIS as a tool to assist Iwi Maori

Ngati Rangiwewehi have been fortunate to have an in house GIS tool to support its negotiations with the Crown for full and final settlement of the tribes Treaty grievance. The Rangiwewehi Charitable Trust works to 3 key areas, Administration, Claims and Iwi Development. These three areas are key priorities for Ngati Rangiwewehi. Te Tari Taiao is the Environmental Unit which is located within Iwi Development.

GIS is a tool of the Unit and provides the vast amount of information required by the Iwi to make informed decisions on the Land and its resources for the benefit of its people. During this presentation a pictorial overview will be provided to show the journey undertaken by the Iwi to understand its historical and contemporary context of the people, the land and its associated resources.

2: Renee Pualani Louis,

Renee Pualani Louis is a Hawaiian woman and graduate of the University of Hawai'i Geography Department. She is an Indigenous cartographer passionate about Hawaiian storied place names, cross cultural ethical research standards, and advocating the integration of Indigenous spatial knowledge systems with Western geosciences.

She volunteers with the Hawai'i Board on Geographic Names, is co-chair of the Indigenous Peoples Specialty Group of the Association of American Geographers, is secretary of the Indigenous Peoples Knowledge's and Rights Commission of the International Geographic Union, and Adjunct Research Associate at the University of Kansas Institute for Policy and Social Research. She is also the owner of a small business, Pacific Data Digitizing, specializing in merging Indigenous wisdom of place with technological innovation.

Skype session on GIS for indigenous Hawaiians

3: Nathan Kennedy, Ngati Whanaunga

Nathan has a mixed background of iwi environmental mahi and GIS. Having been a District Council GIS Administrator for several years Nathan has continued to use GIS on behalf of the iwi, and as part of kaupapa Mäori planning related research over the last decade. Nathan has also been contracted by CFRT to undertake settlement related GIS for Te Rarawa and more recently to facilitate sites of significance mapping for the current Hauraki Collective negotiations.

Creation of an iwi sites of significance database

The issues encountered in using Google Earth, ArcGIS and various other software to create an iwi sites of significance database.

4: Takerei Norton, Iain Gover, Te Runanga o Ngai Tahu

Takerei has whakapapa links to Te Tau Ihu and several Ngāi Tahu hapū but primarily Ngāti Kuri of Kaikōura and Ngāti Irakehu from Banks Peninsula. After completing a Bachelor Degree in Parks, Recreation and Tourism Management from Lincoln University, and a Diploma in Maori Studies from Christchurch Polytechnic, Takerei began working for Te Rūnanga o Ngāi Tahu. Takerei is now a Senior Environmental Advisor for Toitū Te Whenua (The Environmental Arm of Te Rūnanga o Ngāi Tahu) protecting areas of historical and cultural significance to Ngāi Tahu Whānui.

Iain is the GIS analyst for Te Rūnanga o Ngāi Tahu having taken up the position in October of last year. Previously Iain worked for the Department of Conservation as a spatial information officer. He has a double major degree in Anthropology and Geography from the University of Canterbury. He is also a fully qualified aircraft engineer but that skill only gets called on occasionally these days. Iain is a big fan of open source software.

He is currently engaged in finalizing the web delivery component of the Heritage project as well as combining heritage data with environmental datasets, field data capture support, property queries, restoration plan construction, resource consent work and producing maps for hearings, conservation orders, Ngāi Tahu tourism ventures and many other strands of the business.

Cost effective and simple to use solutions for field work processes

This presentation will showcase how everyday mobile devices and cloud based services can provide cost effective and simple to use solutions for Iwi for a variety of field work processes.

5: Paul White, Te Runanga o Te Rarawa

Te Whakatakototanga o nga whenua papatupu Rohe mapping project

6: Bella Tait, Te Arawa River Iwi Trust

Having worked for marae, land trusts, establishing iwi organisations, Bella has seen and experienced how technology and digital tools can support specific functions such as research, analysis, strategy, planning, monitoring, evaluation and to a large extent communication. The Te Arawa River Iwi Trust like many other iwi organisations has just embarked upon entering the digital space by procuring and learning how to use GIS software.

Getting started - Procuring a GIS

For Maori Trusts, Runanga, Ahu Whenua, Maori claimant organisations, Marae, community based organisations etc, the costs of purchasing ArcView GIS software can be a significant barrier to Maori, Marae or community groups even considering integrating a GIS system into their core work environment. However ESRI conservation programme enables Maori and community groups working towards social justice, environment, indigenous rights or public benefit in any nation, or any individual volunteering for these types of groups, to apply for a grant. The grant is non-cash and non-hardware but it provides the software required to establish a GIS.

7: Dayle Takitimu, Te Whanau a Apanui

Dayle Takitimu is an indigenous rights lawyer, co-lead negotiator for the iwi on foreshore and seabed, Treaty and indigenous issues - and more importantly, a mokopuna of Te Whanau a Apanui who cares deeply about the survival and development of her people and is the author of the Te Whanau a Apanui Inter-Generational tribal strategy for Self Determination. Most recently she has led, for Te Whanau a Apanui, the Raukumara Basin - Anti-Deep Sea Oil Campaign; and has been involved in developing Biodiversity Strategy on the National Biodiversity Taumata, and has also been actively involved in Treaty and indigenous rights education and advocacy at the United Nations.

The Territorial Integrity of Te Whanau a Apanui - An indigenous case study

Focusing on how Te Whanau a Apanui actively assert territorial rights; and how information about the territory is, and can be, captured to empower informed decision making, iwi development and enhancing inter-generational strategy.
Particular reference to the Deep Sea Oil Drilling Campaign; and the petroleum exploration permits / seismic surveying within the tribal territory. Examining the use of geospatial information systems as tools in empowering indigenous self determination.

8: Chris Webber, Ngati Rangiwewehi

Can GIS help the Ngati Rangiwewehi Environmental Health Assessment?

9: Haami Te Whaiti, Ngati Hinewaka na Ngati Kahungunu ki Wairarapa

Protecting iwi heritage with polygons

10: Rangikauhoe Heke, Nga Whenua Rahui/Doc Group - Tauira Kaitiaki Tauira

Rangikauhoe is part of the Tauira Kaitiaki Taiao (Maori Ranger Cadetship) run by the Department of Conservation and co-sponsored by Nga Whenua Rahui. He is part of a group who have been offered training/guidance/mentoring in the use of GIS. The group contains 8 people of current and past Tauira.

GIS Training - through the eyes of a trainee

Have you been thinking about taking a GIS course? Have you ever wondered whether you will ever fully understand some the terminology used by GIS? Do you wonder if the use of GIS is truly relevant to what you do? Spatial Analysis??? - isn't that rocket science? We will attempt to answer all of these questions....but wait there's more....we hope to make you laugh while we do it.

11: Bernadette Papa, Ngati Whatua ki Orakei

Ngati Whatua GIS update

12: Des Kahotea

From Tauranga Moana and affiliated with the local three iwi - Ngati Pukenga, Ngati Ranginui and Ngaiterangi. Active with international indigenous archaeology links with a heritage focus.

Pa stories

Local government has adopted the New Zealand Archaeological Association Site Recording Scheme for recorded archaeological sites for Resource Management Act district plan purposes. Pa because of their physical and cultural attributes became a major focus for NZAA recording and early research objectives from the late 1950s. Pa is significant Maori cultural heritage and should be acknowledged by both RMA and Historic Places Act statutory bodies. This presentation is a discussion on the state of NZAA pa site records and identification, current status of pa for district plan heritage, and a project plan to upgrade pa information and status through GPS/GIS survey and mapping for district plan heritage.

13: Tā Tipene O'Regan, Ngai Tahu

Sir Tipene O'Regan has been a Member of the NZ Geographic Board since 1985. He chairs the Maori Names Committee of the Board and is a member of the Undersea Names Committee. He is the former Chair of the Ngāi Tahu Maori Trust Board, Ngāi Tahu Holdings Corporation, the Mawhera Incorporation, Te Ohu Kaimoana, Sealord Group Ltd, and Deputy Chair of Transit New Zealand. He is a Distinguished Fellow of the Institute of Directors and holds the degrees of D.Litt (Hons) from the University of Canterbury and D.Comm. (Hons) from Lincoln University together with a D.Comm (Hons) from Victoria University of Wellington. He is the retired Assistant Vice-Chancellor Maori at the University of Canterbury and remains as an Adjunct Professor. He is a Fellow of the University of Auckland.

Sir Tipene's academic interests have been largely focused on Maori traditional history, Pacific history and comparative culture contact experience. In more recent years he has devoted himself to the evolution of the Intergenerational Maori economy. He has written and lectured widely in this area. He has a personal interest in Hydrographic History particularly in that associated with the Southern Pacific.

The contribution of GIS to the verification process of cultural information

14: Duane Wilkins, Te Papa Atawhai.

Duane is a certified GIS Project Manager. He provided mapping support to CNI, National Park, Whanganui Maori Claimant Groups using innovative 3D map techniques to prepare, present and negotiate treaty settlements. Since then he has directed a programme to implement Enterprise GIS throughout 19 Iraqi Provincial Councils, and has developed a large GIS data centre in support of tracking billions in donor funded infrastructure projects, and to develop GIS capacity within government ministries of the Islamic Republic of Afghanistan for data management.

Over the past two years he has managed a wide range of GIS implementation projects in Local, Central Government and commercial organisation for the NZ Esri Distributor, Eagle Technology Group. He has recently returned to Te Papa Atawhai as Kaiwhakahaere Matua Mahere Whenua, Geospatial Information National Lead.

A Project Management framework for Managing Maori GIS Projects - PMD for NGOs

This presentation will outline the steps involved in managing a GIS project and discuss a recently released contextualized Project Management framework very well suited for use within Maori Groups and readily applied to GIS Projects.

WEDNESDAY 9 MAY

	8.30		**Registration Opens**	
	9.00		Mihi Whakatau	
	9.30		Kapu Ti, registrations continue	
	10.00	**1**	**Kahuariki Hancock**, CEO, Rangiwewehi Charitable Trust	The marvels of GIS as a tool to assist Iwi Maori.
	10.25		Conference Housekeeping	
Moka Apiti	**10.30**	**2**	**Renee Pualani Louis**, Native Hawaiian	Skype session on GIS for indigenous Hawaiians.
	10.50	**3**	**Nathan Kennedy**, Ngati Whanaunga	Creation of an iwi sites of significance database.
	11.10	**4**	**Takerei Norton, Iain Gover**, Te Runanga o Ngai Tahu	Cost effective and simple to use solutions for field work processes.
	11.30	**5**	**Paul White,** Te Runanga o Te Rarawa	Te Whakatakototanga o nga whenua papatupu Rohe mapping project.
	11.50		Panel	
	12.15		1 hour for lunch	
Roland Pomana	**1.15**	**6**	**Bella Tait**, Te Arawa River Iwi Trust	Getting started - Procuring a GIS.
	1.35	**7**	**Dayle Takitimu**, Te Whanau a Apanui	The Territorial Integrity of Te Whanau A Apanui - An indigenous case study.
	1.55	**8**	**Chris Webber**, Ngati Rangiwewehi	Can GIS help the Ngati Rangiwewehi Environmental Health Assessment?
	2.15	**9**	**Haami Te Whaiti**, Ngati Hinewaka na Ngati Kahungunu ki Wairarapa	Protecting iwi heritage with polygons.
	2.35		Panel	
	2.55		30 mins kapu ti proudly sponsored by **Ngā Whenua Rahui**	
Huia Pacey	**3.25**	**10**	**Rangikauhoe Heke**, Nga Whenua Rahui/Doc Group - Tauira Kaitiaki Tauira	GIS Training - through the eyes of a trainee.
	3.45	**11**	**Bernadette Papa**, Ngati Whatua ki Orakei	Ngati Whatua GIS update.
	4.05	**12**	**Des Kahotea**	Pa stories.
	4.25		1hr Panel with all speakers from the day facilitated by **Moka, Roland and Bernadette**	
	5.25		Wrap up	
	5.30		the legendary **GBS** happy hour and pizza	

THURSDAY 10 MAY

	8.00		**Registration opens**	
Des Kahotea	**8.30**	**13**	**Tā Tipene O'Regan**, Ngai Tahu	The contribution of GIS to the verification process of cultural information.
	9.00	**14**	**Duane Wilkins**, Te Papa Atawhai	A Project Management framework for Managing Maori GIS Projects.
	9.20	**15**	**Greg Tikao**, Terralink International	Business Intelligence.
	9.40	**16**	**Andrew Ferrel**, Land Information New Zealand,	Helping us to help you – accessing and using LINZ's information.
	10.00		20 minute panel	
	10.20		30 mins kapu ti kindly sponsored by **North South GIS**	
Des Heke	**10.50**	**17**	**Julie Tangaere, Director** Maori Land Court	Maori Land Court GIS system.
	11.20	**18**	**Garth Harmsworth,** Manaaki Whenua	Maori land mapping and assessment using national datasets at various scales
	11.40	**19**	**Te Kenehi Teira,** Historic Places Trust	Kaupapa tuku iho mapping and heritage identification.
	12.00	**20**	**Mairead de Roiste**, Victoria University	Protecting histories: participatory mapping of cultural and historic features of the East Coast.
	12.20		Panel	
	12.40		Distinction Hotel prize draw plus lunch sponsored by the wonderful **GNS**	
Takerei Norton	**1.30**	**21**	**John Begg,** GNS	How to get the most out of QMAP data.
	1.50	**22**	**Sam Taparapa**, Taranaki Iwi Coord'	Pataka Whata.
	2.10	**23**	**Tania McPherson**, Te Ohu Kaimoana	The Kaitiaki system.
	2.30	**24**	**Tony Elson**, GBS	A consortium approach to Applications.
	2.50		Panel	
	3.10		30 minute Kapu ti	
	3.40	**25**	**Brent Wood**, NIWA	Spatial data capture, management, analysis & mapping using Open Source tools
	4.00	**26**	**Chris Blazkow,** Geosystems	GPS Fundamentals / Demonstration.
	4.15		GPS demonstrations and Training/Live Workstations	Project Management Workshops Further Details, Logistics & Planning
	5.15		Wa Whakatā	
	6.30		Subsidised dinner at the **Rotorua Citizens Club**	

FRIDAY 11 MAY

Rikihana Hancock	**9.00**	**27**	**Nepia Ranapia**, Chair, Te Patuwai Tribal Authority	The interpretation of ancient navigational relics and features of Motiti.
	9.20	**28**	**Ariana Tikao, Mereana Taungapeau**, Alexander Turnbull Library,	Hei Manaakitanga: How Alexander Turnbull collections and expertise can support Maori GIS aspirations.
	9.40	**29**	Nga Potiki National Trust	Maori maps.
	10.00		Panel	
	10.20		30 minute kapu ti na **Bay of Plenty Regional Council Maori Policy Unit**	
Tony Elson	**10.50**	**30**	**David Olsen,** Sinclair Knights Mertz	Maori Land Asset Management – where to from here?
	11.10	**31**	**Takerei Norton**, Te Runanga o Ngai Tahu	Ngai Tahu Heritage Mapping Update
	11.30	**32**	**Kevin Sweeney,** NZ Geospatial Custodian	Opportunities for Partnership: The New Zealand Geospatial Office and Engagement with Maori.
	11.50		Forum	
	12.50		**Moka Apiti,** Te Kahui Manu Hokai Chair	Presentation Wrap-up, Closing.
	1.00		1 hour lunch	

Te Kahui Manu Hokai would like to acknowledge the generous support of all of our sponsors who have made this National Maori GIS conference 2012 possible.

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Project Management Continued…

This presentation will also present a series of sponsored workshops being offered to develop GIS Project Management skills and develop and build capacity within Maori Groups and for individuals to become certified Project Managers. The 1-2 day workshops will require a commitment to about 8-10 hrs self study prior and will be held in various locations pending interest and geographical distribution. Further info www.maorigispm.info.ms

15: Greg Tikao, Terralink International Limited.

Business Intelligence

16: Land Information New Zealand, Andrew Ferrel

Helping us to help you – accessing and using LINZ's information

This presentation will cover who we are, and how the work we do can support iwi in land use and development. I'll outline the areas that LINZ has responsibility for, and some of our key priorities. I'll then look in more depth at how iwi can access and use LINZ's information to support their existing land management, and ask how we can engage with iwi to better support them in capturing the economic benefits of better connecting their location based information.

17: Maori Land Court, Director Julie Tangaere

Maori Land Court GIS system

18: Manaaki Whenua, Garth Harmsworth

Garth Harmsworth (Te Arawa, Ngāti Tūwharetoa, Ngāti Raukawa) is a senior environmental scientist at Landcare Research, Palmerston North, with over 28 years experience. Garths background is in environmental planning, resource management, land resource assessment, GIS applications and environmental databases, and indigenous values and knowledge research. He has worked on a large number of collaborative projects with iwi/hapū and other Maori organisations, including iwi/hapū knowledge and information systems, land assessment, environmental planning, mapping cultural landscapes, environmental and cultural indicators, restoration of indigenous landscapes, climate change, with a primary focus on building Maori research capability through collaborative projects. Examples of Garth's research can be found at: http://www.landcareresearch.co.nz/research/sustainablesoc/social/indigenous_index.asp

Maori land mapping and assessment using national datasets at various scales

There has been little work carried out in Aotearoa-NZ to characterise and quantify Maori land, and understand its physical resource base and potential. "Maori land" is defined by Te Ture Whenua Maori Act 1993 and this definition is used by the

Maori Land Court to determine the status and distribution of Maori land. Under this definition estimates of the total Maori land area are given at ~1.5 million ha – TPK 1998. We provide examples of land resource mapping on Maori land blocks throughout NZ at various scales, discuss the availability of land resource data, and interpretation of various national databases such as the New Zealand Land Resource Inventory, the national soils database, and S-map – a digital soil spatial information system for New Zealand S-map Online nominally at 1:50 000 scale. GIS mapping using land resource, soil quality and environmental data, plus assessment are commonly used to determine the sustainable productive potential of land in order to intensify or expand certain land-use activities. We discuss some of the issues facing Maori land owners, the importance of understanding scale when using GIS for land resource and environmental assessment, and the need to link scale to different levels of decision-making and problem solving.

19: Historic Places Trust, Te Kenehi Teira

Kaihautu at NZ Historic Places Trust and Tira Pouhere Taonga (Team).

Kaupapa tuku iho mapping and heritage identification

How environment and indigenous communities tell the stories of the land in old and new ways

20: Mairead de Roiste, Victoria University

Mairead is a lecturer in GIS at Victoria University in Wellington and moved to New Zealand five years ago. She is passionate about GIS and happy to talk to anyone about most topics in the area. Mairead is particularly interested in participatory mapping, geovisualisation, crowd sourcing, usability and fear of crime. She has recently joined with colleagues at the University of Canterbury to create a jointly taught Masters of GIS.

For the last three years, Mairead has been working on capturing local and cultural histories with local Maori farmers from the East Coast Organic Producers Trust (ECOPT).

Protecting histories: Participatory mapping of cultural and historic features on the East Coast for land management

The New Zealand landscape tells multiple stories; intertwining, overlapping, contradicting and potentially contentious. This talk explores a participatory mapping of two case study areas on the East Coast using GIS. Researchers from Victoria University of Wellington were invited by local Māori farmers in the East Coast Organic Producers Trust (ECOPT) to apply and extend a land management tool on their farms on the East Coast. As part of this project, the local farmers were keen to include historical and cultural features in decision making between

different land management options. This talk explores the mapping and representation of the identified geographic features and the inherent difficulties of such a process, the roles of the farmers and researchers in the participatory process and the proposed use of the recorded features. Some common features were identified in both study sites and I outline the potential for the automatic identification of historical features.

21: GNS, John Begg

How to get the most out of QMAP data

22: Sam Tamarapa, Taranaki Iwi coordinator

Sam Tamarapa has iwi affiliations that take him all around Maunga Taranaki. He is a sitting member on Te Runanga o Ngati Ruanui Trust as the hapu representative for Ngati Hine. He currently works as a consultant on fishery related matters and has been involved in a number of Iwi led fishery projects. Prior to this he worked as a Fishery Officer and a Relationship manager for the Ministry of Fisheries.
A project of particular note has been the development and implementation of Pataka Whata for Taranaki iwi. This has been successfully operated for the last three years where Sam was appointed by the iwi as the project co-ordinator to ensure its continued smooth operation.

Pataka Whata

Te Ohu Kaimoana's digital capture system is called "Pataka Whata". It was developed specifically for the iwi of Taranaki including initially Ngati Ruanui, Nga Rauru and Taranaki who piloted the prototype system for one year before Ngati Apa, Ngati Mutunga and Te Atiawa also joined in. Note there is no money involved in any of these systems. They are all designed for customary non-commercial purposes. It provides an electronic documentation system supporting a wide range of information which can then be displayed on a mapping tool (we are currently using Google maps at this stage but are looking into other options). Information is also available in various tables and exportable excel files for further manipulation (e.g. quarterly and annual reports, Use by purpose (i.e. hui or tangi) use by iwi (i.e. %) and use by species or state). It has been successfully operating now for the last three years. Note: While this electronic tool is available for use by other Iwi it is only a back end support tool that requires a lot of work to set up the infrastructure and relationships to run the overall process smoothly. Sam will provide insight on this from his personal experience and involvement in establishing the Taranaki model (abstract abridged for programme purposes).

23: Tania McPherson, Te Ohu Kaimoana

Tania McPherson hails from Matapouri Bay northeast of Whangarei. She is of Ngatiwai decent and holds a degree in Marine Science from the University of Auckland. Tania is a Senior Policy Analyst focused on customary fisheries, legislative reform and fisheries management at Te Ohu Kaimoana where she has been working (amongst other things) on the development of a Catch Information System for Iwi that can accommodate all Iwi/Maori interests (customary, commercial and recreational).

The Kaitiaki system

Te Ohu Kaimoana has a system (previously called "e-fish" see www.efish.co.nz - that was developed and tested in conjunction with three iwi in the Bay of Plenty including Ngati Pukenga, Ngati Ranginui and Ngaiterangi). While this prototype is still in use in the BoP we have been working to significantly upgrade it to make it more useful for local kaitiaki (and their whanau, hapu and iwi). Once completed we plan to take it back to the BoP Iwi for feedback and use before making it widely available to other iwi and their whanau, hapu and marae throughout the country. It provides an electronic documentation system supporting: the issuing of customary fishing permits/authorisations under any of the Ministry of Fisheries three sets of customary fishing regulations and, the capture of fishing information (i.e. catch, effort, location and condition) which can then be displayed on a mapping tool (currently Google maps but we are looking for feedback from the conference on this) and extracted in exportable excel files, tables and chart formats. While it is yet to be rebranded and launched we will refer to it as the "Kaitiaki System" for the purpose of this presentation. In the future we are considering providing similar system for iwi (involving their registered individual members) to record their information so that Iwi will be able to determine their total catch "footprint" across all of their non-commercial fishing activities. Armed with this suite of information Iwi will be much better placed to participate in fisheries management. (abstract abridged for programme purposes).

24: GBS, Tony Elson

A consortium approach to applications

The Consortium approach to sharing applications is an alternative option that can be supported centrally, can save costs, have separate look and feel depending on iwi / roopu if required, and also have separate security settings for sensitive data. All this can be supported off the same basic framework. A consortium approach in some ways takes the concept open sourcing the platform – even within a proprietary GIS such as Esri, Intergraph, MapInfo etc.

25: Geosystems, Chris Blazkow

GPS Fundamentals / Demonstration

A discussion based around the basic principles of GPS. This presentation will focus on how GPS works what to do and not to do in the field, what accuracy I should expect in the field and why. How some GPS units can improve and speed up data collection, as well as debunking some common GPS myths. The field session will focus on the differences between recreational and professional GPS units in terms of accuracy and workflow.

26: Brent Wood, NIWA

Brent Wood is currently the programme leader for data delivery at NIWA, the National Institute for Atmospheric and Water Research. He is also a council member of the New Zealand Open Source Society and a director of the Open Source Geospatial Foundation's Australasian Chapter. He is also a member of the Open Geospatial Consortium. Brent has been using Open Source database and GIS related tools privately and professionally for some fifteen years, and has been responsible for the development of web mapping portals to provide open access to NIWA and government environmental data.

Spatial data capture, management, analysis & mapping using Open Source tools

I believe there are synergies between the cooperative relationships which drive the Open Source communities, and customary & traditional peoples' communities. Generally both have a focus on support and cooperation rather than pricing and competition.

In the Open Source world there are a number of GIS related applications, most of which have a specific purpose, but when used together, combine to make a powerful GIS suite. Free spreadsheet applications for data capture, free spatial databases for data management, free analytical tools, cartographic tools & desktop & web mapping tools.

27: Nepia Ranapia, Chair, Te Patuwai Tribal Authority

Nepia is the Te Patuwai Tribal Chair, Resident Kaumatua at Motiti, Geographical Expert and Historian and is also a claimant to Waitangi Tribunal

The interpretation of ancient navigational relics and features of Motiti

Nepia has been working with gps to map cultural sites on Motiti. This mapping has been an integral part on the development of the Patuwai Management Plan for Motiti. These sites are predominantly sources from taonga tuku iho (inherited knowledge) and cross referenced with other traditional sources i.e. moteatea (chants and song), mahinga kai practices and geographical knowledge from

past kaumatua. These sources are continually utilised to put the knowledge in effect i.e. hikoi (site visit/walk over), wananga and natural resource management advocacy and advisory. Recently Nepia and his whanau have utilised the gps technology to map traditional sites of Motiti. In former time's topographic features such as rocks, waterways, maunga was aligned with the maramataka and the arrangement of the stars. This knowledge was utilised in the survival of Motiti tangata whenua and was essential for the planting of crops, fishing and other mahinga kai practices. The mapping process undertaken by the whanau has showed surprising correlations between traditional environmental knowledge with advent of modern geographic technology. This is a very holistic approach to gps mapping that centres on information derived from traditional sources over time and demonstrates how tangata whenua who rely on surviving on what nature has provided. Nepia will discuss traditional GIS with reference to mapping produced for their Hapu Management Plan.

28: Alexander Turnbull Library, Ariana Tikao, and Mereana Taungapeau

Hei Manaakitanga: How Alexander Turnbull collections and expertise can support Maori GIS aspirations.

The Alexander Turnbull Library is home to taonga of interest to Maori. In particular there are collections that would be of use to current Maori GIS projects, including the Manuscript, Cartographic and Oral History collections. What do these collections contain and how can the resources be used for GIS projects? Is there potential for collaboration with Iwi to use and promote ATL cartographic collections? The National Library is currently in the process of developing a new website. A map-based interface is one possible option for site navigation. How is this technology currently being used in an overseas setting? And how could the website development and map-based searching increase Maori access and navigation of the library collections?

29: Nga Potiki National Trust

Maori maps

30: Sinclair Knights Mertz, David Olsen

David Olsen is a Senior GIS Consultant and Section Manager at SKM with over twenty years working in the geospatial industry in New Zealand. He has project-managed a wide range of projects from large data conversion projects to a multitude of historical Maori land research and GIS projects for OTS and CFRT.

Maori Land Asset Management – where to from here?

Recognising that the need for GIS doesn't stop after the settlement process, David will discuss the use of GIS in land asset management, and industry developments over the last few years in disseminating data securely across groups of people spread over large areas and the implications for Iwi in the post settlement period and beyond.

31: Takerei Norton, Te Runanga o Ngai Tahu

Ngai Tahu Heritage Mapping Update

32: NZ Geospatial Custodian, Kevin Sweeney

Kevin is the Geospatial Custodian and represents the New Zealand Geospatial Office. As New Zealand's senior geospatial official, Kevin provides thought leadership for the country's geospatial strategy and efforts to expand the contribution that spatial information and technologies make to New Zealand's economy. He also serves as Chair of the Geospatial Steering Committee, responsible for implementing the Geospatial Strategy work programme across government. During his twenty years in the geospatial industry, Kevin has held managerial and technical roles in the public, private and academic sectors. Prior to immigrating to New Zealand from the United States, Kevin worked as a senior consultant, geospatial division manager, and municipal Director of Technical Services. Kevin holds a Master of Arts and a Bachelor of Science degree in Geography and is a certified GIS Professional.

Opportunities for Partnership: The New Zealand Geospatial Office and Engagement with Maori

The New Zealand Geospatial Office (NZGO) is tasked with leading the work to deliver on New Zealand's Geospatial Strategy. A key part of our success in this role is engagement and working alongside others with an interest in how we can best utilise our geospatial information. As Geospatial Custodian, my role is to work with the wider geospatial community to identify opportunities where we can partner to deliver the benefits available through the use of location-based information and technologies. This presentation will consider recent steps LINZ has taken to improve its relationships with Maori, and identify some opportunities where the NZGO can partner with iwi to unlock the potential of location-based information.

Project Management Workshops

Te Kahui Manu Hokai are pleased to announce an initiative to support the development of GIS Project Management skills within Maori Groups.

To facilitate the building of this capacity, The Department of Conservation and Eagle Technology are offering sponsorship of a series of 1-2 day practical workshops in mid 2012 at little or no cost.

The workshops will require a minimum commitment of 8-10hrs guided personal study to review the guidebook prior to the attending the practical workshops, the number of and locations of which will be determined pending interest and geography.

The Project Management in Development (PMD Pro) is a contextualised Project Management certification which has been developed with experts from several of the world's best-known and highly regarded non-governmental organisations including World Vision, Mercy Corps, Care, Plan International, Oxfam, and the Project Management Institute.

Full details will be available at the **Thursday 4.15pm session**. Please complete this form, or register your interest at on our website www.maorigispm.info.ms



Name _____

Organisation _____

Role _____

Email _____

Mobile _____

www.tekahuimanuhokai.org.nz