

**Attendees:**

Tasmania .....	Michael Giudici	<i>ICSM Chair</i>
South Australia .....	Michael Burdett	<i>ICSM Deputy Chair</i>
Australia – civilian .....	Simon Costello	
Australia – civilian .....	Nicholas Brown	
Australia – Defence (AGO) .....	Maree Wilson	
Australia – Defence (AHO) .....	Brett Brace	
Australian Capital Territory .....	Ron Jarman	
New South Wales .....	Narelle Underwood	
New Zealand.....	Mark Dyer	
Northern Territory.....	Craig Sandy (via teleconference)	
Queensland .....	Russell Priebbenow	
Victoria .....	John Tulloch	
Western Australia.....	Annaliese Walster	

**Apologies:**

New South Wales .....	Wayne Patterson
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**Invitees**

Standards.....	Chris Body
ANZLIC .....	Brian Sloan
CRCSI .....	Chris McAlister
PSMA.....	Michael Dixon (via teleconference)

**Observer:**

Australian Capital Territory .....	Jeff Brown
Queensland .....	Susan Birtles

**Minutes**

ICSM Executive Officer .....	Lesley Waterhouse
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## 1. Opening

### 1.1 Welcome and Apologies

Michael Giudici opened the meeting and welcomed all the delegates, observers and invited guests to Brisbane. Wayne Patterson was unable to join the meeting and that Craig Sandy would be joining via video/teleconference link.

Michael welcomed in particular, Maree Wilson who was the new AGO representative; Nicholas Brown, who is the Chair of PCG and attending for Gary Johnston; Brian Sloan and Chris Body to the meeting.

Michael thanked Russell Priebbenow for hosting the meeting.

### 1.2 Minutes from previous teleconference

The minutes from the Perth meeting were proposed by Annaliese Walster and seconded by Russell Priebbenow and confirmed as a true record of that meeting.

The February teleconference will be amended to include the establishment of an ICSM Standards Special Interest group. Otherwise minutes were proposed by Narelle Underwood and seconded by Maree Wilson and confirmed with that change to be made.

### 1.3 Actions

No.	Previous open actions:	By:	Completed/ Due Date
Hba 18	All ICSM working groups to examine their work programs and FSDF work program document, to include activities in their work program	All ICSM Chairs	Closed, on meeting agenda
Chc 04	Gary Johnston to supply a contact at Infrastructure Australia to further investigate this issue affecting SUI guidelines publication.	Gary Johnston	No further progress. Closed.
Chc 13	Jasbir to request that Bill Mitchell (BOM) clarify and produce a business case for the rebuilding and maintenance of the Port Stanvac tide gauge.	Jasbir Randhawa	Bill Mitchell spoke to SA Dept of Environment. A tide gauge to be installed at boat ramp 2km away from previous gauge. Michael Burdett is still waiting for Bill to supply costings to finalise business case. <b>Open.</b>
Chc 14	PCTMSL to develop a statement of benefits of maintaining and updating metadata records associated with tide levelling and the ellipsoid.	Jasbir Randhawa	Closed. PCTMSL have developed required statement of benefits for updating metadata records associated with ellipsoid.
Chc 16	PCPN to submit a business case outlining funding required for Australian representative to attend IICPN 2017 in Dunedin, NZ	Danielle Stefani	Closed. Conference has been further delayed. To be resubmitted if required at a later time.

Telecon 01/08/ 16	The 1SDI work package of the impact of GDA2020 on custodians is to be incorporated into the activities of the GMIWG. Simon Costello and Michael Giudici to discuss further how this will be managed	Simon & Michael	Closed. Discussions as part of meeting agenda.
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No.	Perth Actions:	By:	Completed/ Due Date
P 01	Forward Lee Gregory paper to Gary Johnston for comment and response.	Gary Johnston	Completed.
P 02	Include discussion of our role in commenting on PhD (or similar) papers in Strategic Plan	All	Closed.
P 03	Brian Sloan to seek from ABS direction on how to formalise agreement between Andrew Jones and ICSM to be representative on Standards Committee.	Brian Sloan	Closed. Brian spoke to ABS, they don't have such a template for contract for volunteers.
P 04	Michael Giudici to formally respond to Andrew accepting his offer to be ICSM representative on Standards Committee	Michael Giudici	Closed.
P 05	As part of further strategic planning, identify our requirements to better engage with Standards committees.	All ICSM	Closed. Part of meeting agenda.
P 06	Russell Priebbenow to forward Rod's contact details, through Lesley, to Mark Alcock.	Russell, Lesley	Completed.
P 07	Jasbir to forward details for tidal models to be built in UML to Phil Collier for further investigation.	Jasbir Randhawa	Bill Mitchell (BOM) is liaising with Nathan Quadros (CRCSI) to have the CRC resource this research. Completed
P 08	Gary Johnston to begin the process to have Dynanet IP rights transferred to Geoscience Australia.	All ICSM and Gary	Completed.
P 09	Investigate and list any other software, similar to Dynanet, that is in current use by the jurisdictions that might need a similar approach to become open source	All jurisdictions	EDM calibration; ePlan visualisation. Closed.
P 10	Circulate to ICSM members, PCPN and PCA the PSMA paper on next generation GNAF	Lesley	Completed
P 11	Danielle Stefani with John Tulloch, to examine the structure and composition of PCPN. This action will apply to all working groups and committees.	All ICSM Chairs and Sponsors	Closed. Agenda item.
P 12	PCPN to further detail the recommendations contained in their report for decision by ICSM.	Danielle Stefani	Closed. Agenda item.

P 13	All working groups and committees to review their membership and replace, renew where necessary and appropriate	All ICSM Chairs & Sponsors	Closed. Agenda item.
P 14	Gary Johnston to notify all jurisdictions when Datum is gazetted.	Gary Johnston	Still waiting for NMI to gazette Nick Brown to advise jurisdictions when done. Closed.
P 15	Once the strategy documentation is completed, the future funding allocations are examined by all ICSM to produce a more balanced budget.	All ICSM Executive	On going, carry forward.
P 16	Gary to develop basis of strategic plan, in advance of teleconference	Gary Johnston	Completed.

**Teleconference Actions:**

No.	Nov 16 Teleconference Actions:	By:	Due Date
11/01	Wayne to polish final document, once agreed and confirmed	Wayne Patterson	Completed.
11/02	Michael Giudici, Simon Costello and Wayne Patterson have meeting to further refine Plan for comment at February teleconference. In Canberra ?	Michael Giudici, Simon and Wayne	Completed.
11/03	Simon to send out activity packages for FSDf work.	Simon Costello	Completed.
11/04	Such work packages to be considered to be included in strategic plan, in terms of who is undertaking this work.	Simon, Michael, Wayne	Completed.

No.	Feb 17 Teleconference Actions:	By:	Completed/ Due Date
01/02/17	Michael, with Simon and Wayne, will take comments from this meeting to finalise the Plan for final approval and adoption. Particularly regarding the measuring of values and benefits.		Completed.
02/02/17	All ICSM Sponsors to discuss and review with Chairs and working groups clear Terms of Reference and work plans relating to and aligning with the Strategic Plan. The revised (if necessary) ToRs and work programs to be discussed in detail at Brisbane meeting.		Completed.
03/02/17	Add border data item to May agenda.		Completed.

## 1.4 Significant correspondence.

1. Letter of engagement for GDA2020 open source conversion by Alex Leith promotion was accepted.  
Alex has already completed most of this work and submitted invoices. Now waiting for other aspects of the datum modernisation (gazettal; grid release) to be progressed.
2. Letter to Phil Collier, CRCSI supporting three research Cadastre projects on behalf of PCC and noting ICSM contribution of \$30,000 towards the projects.
3. Variation Agreement of Melbourne University ARC Linkage project noting that one partner, Fender Katsalidis, Architects have reduced their in-kind contribution from \$50,000 per year to nil, and cash contribution from \$30,000 per year to \$10,000 per year.

## 2. Stakeholder Reports

### 2.1 ANZLIC – Brian Sloan

The ANZLIC minutes and actions are available through ANZLIC members or contact officers. New chair from 1 July 2017 will be Steve Jacoby (Qld), with Bruce Thompson (NSW) as Deputy Chair.

CRCSI and SIBA have now published the 2026 agenda, which will take the spatial industry forward in the next 10 years. The agenda is available at <http://2026agenda.com>. There is a renewed push to diversify leadership in the sector, to have industry as involved as well as government agencies. The Leadership group consisting of government, industry and academia representatives is to take the agenda further, PM&C are involved. There are nine identified sectors outside spatial to sit on board.

**Action 01:** *Brian Sloan to circulate membership list of 2026 Leadership group to ICSM.*

The Productivity Commission has released findings in data availability. A result of this report will be the development of data legislation regarding governance on key public interest data sets and data sharing being curated and made nationally available. There will also be a new right developed on individual consumer social rights. Draft legislation to be available by August.

**Action 02:** *Lesley to circulate email linking Productivity report.*

Brett Brace asked what obligations the PC report will have on custodians to retain and/or maintain the source and provenance of data, or on custodians of disparate maritime data to "compulsorily hand over"? Brian said that the Australian Government's *Digital Continuity 2020* policy may place obligations on Australian Government agencies, but that there have been no specific discussions regarding this in terms of the role of the proposed "National Data Custodian" and will take this query back to the board.

**Action 03:** *Brian Sloan to report back to ICSM regarding obligations of custodians to retain source data.*

As part of the PSMA reform, PM&C are to investigate whether there are more "public good" datasets that could be released free, however, PSMA will still be able retain income generating datasets and expand its commercial opportunities.

The governance of PSMA can be changed at the general meeting held in October. There is a need to define a new model before then, regarding the release of public good vs. income generating datasets. PM&C will be drafting a statement of their views of the new governance and model of PSMA, including a "public good blueprint", that will be circulated the ANZLIC contact officers only for comment.

The Open Data Index shows Australia not have open land ownership data.

Craig Sandy asked what is the criteria for land ownership data to be considered 'open'. The criteria is that information is open and free. In the UK you can publicly search parcels of land. It is possible in Australia to search public register in Tasmania, WA, NSW (for a fee). Michael Burdett said it should show that information is readily accessible, not always free.

**Action 04:** *Brian Sloan will clarify which land ownership data is being rated on GODI, as Commonwealth does not own this data. It should be noted that at least, the land ownership data in Australia is up to date and publicly available and these categories should be 'green'.*

Michael Giudici noted that is potential Commonwealth funding for a cadastral focus project. This was discussed at PCC yesterday. Through ANZLIC, NSW and Queensland both have raised the issue of their end-of-life cadastral and geodetic systems, which need to be renewed. There are no COTS system suitable and there is a pressing need to find a solution and an agreement between those states and Federal government to develop a new cadastral and geodetic management system that can be extensible to other jurisdictions when they have a similar need to change/update. PM&C have prepared a brief to government to apply for a pilot project, which if successful could be extended for a much larger project. It is expected to have the brief ready to apply for funding in the second round of budget allocations in August. The proposal by the federal government is to work with NSW and Queensland to introduce new capability to modernise property information system; using GNAF to open new markets as well as opening the cadastre. PSMA CadLite might be a new product that is made available for public good. There is no funding available at this budget cycle, but may be able to apply for the second round in August.

Initial work based on NSW drivers, with Queensland to develop parallel study with work flows, etc. This is an intense area for research but will be very difficult to resolve, there is also a need to deal with legacy 2D systems, maintenance, improvement phase and future needs. There is some complementary research being conducted by Don Grant and CRCSI.

Mark Dyer said New Zealand is willing to share their learnings as they are already in the process of updating their systems. This is a shared problem internationally and it would benefit all to share experiences. Mark would like to see the right people connected from across jurisdictions to share data modelling, strategy around systems and maintenance for a common outcome, rather than everyone developing bespoke models. Narelle noted that even if some states can align with each other, such as NSW/Qld, SA/NT etc, this still reduces some duplication.

It was noted at ANZLIC, that there was not enough time allocated for ICSM matters, this will be rectified at the next meeting.

At the previous meeting, a joint session was held with SIBA and SSSI, and this will be an item at future ANZLIC meetings. However there is still no joint ICSM/ANZLIC strategic discussion scheduled.

Brett would like to have maritime data included in the open data; as well as any maritime data collected is compulsory supplied to the Hydrographic Office.

## 2.2 Standards – Chris Body

Michael Giudici invited Chris to personally address the meeting, to give ICSM a clearer understanding on where ICSM stood in the Standards space, and how we can make a better contribution as well as having ICSM members better engaged.

Standards Australia is the peak body to engage with ISO and OGC. These standards assist countries to improve their industries, systems and products to be integrated across the globe - standards help Australia sell its digital goods and services to a global market. It is consensus based, so no one group dominates or influences standards.

Michael asked if Standards Australia was a statutory body, it was once, but now has an MOU with the Australian government.

IT-004 was formed in the early 1990's and Australia and New Zealand played a significant role in standing this committee up. The membership is reviewed every 5-6 years to ensure its members are consistently from government, sub-government, academia and private members. Andrew Jones is the current ICSM member on this committee. Other members include Defence, ANZLIC, GA, SIBA, Melbourne University. Chris is the independent chair of IT-004 until 2019.



IT-004 is liaising closely with building industry groups, informing them of a need for spatial standards in relation to their work. Intelligent transportation systems are also relying on accuracy for positioning and standards relating to that. Blockchain is also using land information technology (Brian Sloan is representative). They are also starting to engage with Smart Cities and informing them of the importance of geospatial information as part of their data.

Two standards are nearly completed, one being 4590 Interchange of Client Information. The Urban and Rural Addressing Standard 4819 is now due for review, the last version having been published in 2011. The committee is to invite ICSM to again to take the lead on 4819. The timelines for reviews is becoming shorter with technology developments.

The sub-surface standard is also being reviewed, but this risks becoming orphaned as OCG is doing a lot of work and pilots in this area which may be a better option to use in the future. There is also a risk of continuing use of LandXML (ePlan). Australia and New Zealand were ahead of the curve in implementing LandXML in the past, but other countries have now caught up and now using a different platform, putting Australia and New Zealand at risk of not using global best practice in this area.

Craig Sandy stated there had been discussions concerning LandXML not continuing and what approach should be taken if LandInfra is adopted as the new standard

ISO TC211 was formed in 1994, and the first chair was Drew Clarke. There is now no funding available for this group and Chris chairs the group voluntarily, with only some travel costs provided by Standards Australia. They are doing liaison work with other UN committees, particularly UNGGIM. ESRI has been a strong supporter of TC211 and a lot of work is being driven out of Europe by INSPIRE.

ISO TC211 standards are often adopted as Australian and New Zealand standards, as this is a cost efficient approach. Australasian standards working groups often provide input into TC211 working groups, and then receive internationally-endorsed approaches in return. An example of how this could work would be the inclusion of early FSDF work into review of the ISO Data Product Specification standard. INSPIRE continue to drive a lot of international standards review and development as a means of providing global endorsement to their own best practice.

Simon noted that the demand for standards is increasing, but the skill base and funding is decreasing. There is a need for policies and standards to be developed around developers and innovators. There is a need to start including metadata provisions in all contracts as there is a great deal information contained therein.

Michael Giudici stated some working groups are already involved in standards, but overall ICSM is partially disengaged. Andrew Jones is close to retiring from all standards activity by end of next year. There is a need for an overall liaison person reporting to ICSM and providing advice and guidance. The land administration domain model and UN maritime boundaries are about to be reviewed, but Australia's participation has not been significant.

Nick Brown noted we're time poor and contribute mainly by volunteerism; how can we best contribute to ISO? Chris said that if it is in our Strategic Plan, then it must be properly resourced. Simon said this has been discussed previously and that any work associated with the Strategic Plan should be part of 'day job' and their work plan. Chris said that the original role was resourced properly, but has been watered down as the role moved from department to another. Michael said that at ANZLIC there was discussion of a need for agility on standards and that the role Chris used to perform should be reinvigorated and the role restored by either GA or PM&C. There is still a need for someone like Andrew Jones to keep reporting back to ICSM.

A TC211 meeting is to be hosted in Wellington New Zealand 29 November-2 December; and OGC in Palmerston North NZ, 4-8 December.

**Action 05:** *ICSM to report to ANZLIC highlighting the risks of not being involved in standards and the need to provide a sustainable resource. ICSM takes an "overseeing" role, but individual agencies via working groups take leads, particularly where having a working standard helps their business.*



Brian Sloan said that support for the development of standards, ANZLIC was looking for ICSM to be the technical lead and Brian in national support. Brian would like ICSM to support some level of governance which will be further explored in action paper

### 2.3 CRCSI – Chris McAlister

Chris is the Business Development Manager for CRCSI in Queensland. The positioning program is of high importance with the SBAS EOIs just closed and projects are expected to be running from mid-June, early July.

Program 2, Rapid Spatial Analytics is doing a QA for LiDAR program and Nathan has received funding for a QA on UAV platform which will be publicly accessible in the cloud. Robotic inspection projects continuing in partnership with QUT and will eventually extend to disaster relief with robotic data collection.

Open Spatial Analytics being run by RMIT to allow open source application of spatial data collections.

Nathan Quadros is happy to give any briefings that are required regarding hydrographic and bathymetric data and partnerships with agencies for collection.

Program 4 is focussing on “greening the greyfields” which is looking at repurposing former light industrial areas and modelling the impacts of rezoning on existing infrastructure and any contamination issues. Australian Livestock Spatial Innovation Program (ALSIP) is a blockchain project to assist the provenance of indigenous property agriculture and specifically, greatly increasing the value of beef exports.

A novel use of spatial data has been the launch of the Cancer Atlas which allowed government to immediately change the resources to better assist patients to enable improved access to treatment.

The final version of the 2026 agenda has been released and Phil Delaney is the contact for any further information, including and queries regarding participating in the Leadership Group. The Leadership Group is also in the processing of "assigning" activities in the agenda to various bodies, and potential "doers" should notify the CRC of where they are already undertaking or leading work in the 2026 agenda to cover off those activities.

CRCSI is seeking in principle support for its continuation post 2018. The CRC has already exceeded research targets by 45% for this year already, which shows there is a demand for this research work. Potential new members include Australian Taxation Office, University of Tasmania, University of Queensland and Australian Institute of Health & Welfare.

### 2.4 PSMA – Michael Dixon

The GNAF continues to be maintained with records continually being updated, and is still supporting the Commonwealth to supply information to users.

The white paper for Nextgen GNAF, concerning address verification is now published. Many users are building their own address verification services, but PSMA is collaborating with Ordnance Survey and Pitney Bowes to the development of open standard geocoding that is interoperable with OGC platforms and standards.

Craig asked in light of Chris Body’s presentation, is there some correlation between the addressing validation API and the review of the 4819 Urban and Street Addressing standard which is about to be reviewed? Michael said that they are at different ends of the supply chain, but that the most efficient way for everyone to utilise the same infrastructure and the same APIs, whether a consumer or supplier of information. Craig said there needs to be discussion to ensure the APIs support the standard. Chris Body noted the communication between the groups could be stronger and Chris will investigate who would be the best person to liaise with PSMA to ensure the standards are incorporated.

**Action 06:** Chris Body to advise PSMA a contact, to ensure standards are being followed in API development.

Geoscape has been republished a few times, and now includes Sydney. Geoscape has been driven by the insurance sector, to provide cost effective capture of the built environment at a national scale. The maintenance schedule is being developed and anticipated having 100% coverage by the end of the year. The

initial take up has not been as quick as was hoped, due to lack of national scale, but is now increasing. The key sectors of interest are insurance, logistics and telecommunication companies, governments – of all levels. Michael also highlighted the importance of planning zones as an input for Geoscape and that harmonising planning classifications across jurisdictions would help improve content quality for some of the attributes in Geoscape.

The model PSMA has set up to apply algorithms and analytics to the big data imagery provided by Digital Globe is one they would like to share with others. A workshop is to be held for jurisdictions to explore transfer of imagery data to a possible Australian data node, to be managed by PMSA. Simon Costello and PCTI would like to speak to PSMA about any cross overs with the LINK and Elvis, etc. Michael thought this would be consistent with the FSDF and are currently standing up some pilot activities with NSW and ACT.

**Action 07:** PSMA and Simon/PCTI (on behalf of jurisdictions) to liaise regarding Australian data node.

### 3. Permanent Committee and Working Group reports

#### 3.1 Permanent Committee on Cadastre (PCC)

Russell Priebbenow presented the PCC report. The discussion at the meeting centred on the presentation by Don Grant of the three CRCSI projects and how Don thought it best to achieve outcomes. Don specifically noted he was not going to touch upon 3D. The ARC Melbourne University project was also discussed.

The discussion concerning the detailed Terms of Reference for the group was deferred to a later teleconference, and it is expected these will be based on Cadastre2034 goals, as well as discussions today on how to best address this consistently with other working groups.

ePlan is having a reassessment on their work priorities now that jurisdictions are adopting different approaches and the future of LandXML in question. ePlan will submit their new Terms of Reference to ICSM once this review is complete.

The DCDB was reformed as a result of work from FSDF, but since then, it is not clear what work has been completed by FSDF Program Management Office, and what the DCDB is required to complete.

**Action 11:** Ron, Brian and Simon to conduct a gap analysis to assist in forming a work program for DCDB

Due to the privatisation and restructure at LPI, Chris Wilcox is unable to continue as chair of ePlan. Craig Sandy was recommended to be Chair and Russell seeks ICSM's endorsement. PCC/Russell proposed Craig's nomination, seconded by Michael Giudici and confirmed by ICSM.

PCC put up a straw man on its vision, scope, role and Terms of Reference, as taken from the ICSM web page. There is a need to unpack the rest of the working groups' versions to agree on the best template for ICSM to adopt. The PCC version was largely modelled on the PCG one.

The version Russell presented was generally accepted, with some fleshing out to be completed at the teleconference.

There was discussion whether "Permanent" is a term that should still be used in describing the sub-committees of ICSM. Simon was concerned that some committees were kept going long after their usefulness had ended. Craig found that the term was an impediment to change and progress. It causes some confusion as to the hierarchy of ICSM and ANZLIC. Michael preferred to keep the name "Permanent Committee" until further conversations.

Simon liked that the ToR were tied to Cadastre2034 and the links to the Strategic Plan.

Russell suggested that the vision and mission be the header in all ToR, but do all committees need a scope, mission and vision? The DCDB don't need to have a vision and the mission could be delivery of the FSDF. Simon said that the main purpose is to deliver Cadastre2034, which also requires two taskforces, one delivery FSDF and the other, ePlan. Narelle and Simon thought the scope, mission and vision could be dropped or to be the same as ICSM. Narelle noted that the Tasmanian government template had

background context, function and role. The goals or activities to be achieved were then listed which would form the work plan.

Mark Dyer would like to define the focus areas of all working groups, if they then go outside the focus areas, then they come back to ICSM for endorsement. e.g. Focus area 1 – FSDF supporting work; Focus area 2 – research and future thinking; etc. Michael Burdett would like to see a simple high level document and the work program/plan and report on progress to remain part of the reports to meetings to give ICSM a measure to evaluate progress and add information to theLINK for that layer of reporting

PCC should be the easiest one to complete as it is drawing its activities and scope from Cadastre2034.

Craig further added that cross-committee involvement should also be clearly articulated as part of communication role, e.g. PCC collaboration with PCG.

**Action 13:** *Russell to note conversation and refine PCC Terms of Reference for out of session endorsement.*

### State borders:

The natural boundaries of Qld/NSW/Victoria are the only parts to be resolved. Victoria is undertaking QA/QC which is expected to be finished by 1 July. Simon suggested that a statement that an agreed representation of state borders endorsed by ICSM and the Surveyors-General, with appropriate disclaimers, and is consistent with other FSDF data.

Brett Brace asked whether the maritime boundaries will also be included. Michael Burdett said this should follow the national mapping of the low water line. Simon is intending for the maritime boundaries and land borders to eventually be made available together, and would seek to obtain the current versions of the land borders to begin that integration. A future release proposal would be put to ICSM at a future date.

**Action 14:** *All jurisdictions consider the maritime region of their state borders*

**Action 15:** *Where there is agreement on borders, all jurisdictions forward that data to GA (not for release, for internal use only).*

## 3.2 Permanent Committee on Geodesy (PCG)

Nick Brown gave the PCG reporting noting that GDA2020 is expected to be released in the coming month along with a range of tools and services. The gazettal has been delayed by National Measurement Institute (NMI), but once this finally takes place, the 2020 datum will be official recognised and GDA94 will be revoked. This will not have any impact on legal traceability or on users.

Some GDA2020 transformation parameters are already available on the ICSM website. There is also the FME cloud which supports many formats to transform data, which is also now available and using GA's enhanced ELVIS infrastructure for FSDF. This can be used easily and for free. Alex Leith is also progressing the ICSM GitHub repository, which provides further data and software to transform data.

PCG is also working to incorporate GDA2020 in Auspos and AusGeoid, the technical manual is nearly complete and will be available once the Datum is gazetted. ESRI has also been involved in the development of transformation tools and should be part of 10.5.1 release and will use both 7 figure parameters as well as distortion grid. A flow chart and fact sheet showing the right transformation grids to apply has been prepared for distribution.

All factsheets and transformation grids will have ICSM branding. Phil Collier (CRCSI) has been working with Simon Fuller on these tools. Phil was also involved with 66, 84 and 94 and is passing his knowledge and experience to Simon as part of this collaboration.

GA is collaborating with Curtin University and CRCSI to produce a new AusGeoid2020 product, this will be the first time uncertainty will be available along with the ellipsoid and the AHD.

The new GeodesyML standard has been in development for about 10 years, and is now near completion. It is available on the [geodesymml.org](http://geodesymml.org) website. Steve Tarbit (Qld) and Roger Fraser (Vic) have been driving this and is not a new standard but augments existing ones. It has also been recognised as an international

standard for site log metadata for GNSS CORS sites, supported with Gary's input as IGS Chair and as a champion for this work.

The SBAS trial is proceeding and it will be interesting to see how this evolves after the 2 year pilot study. John Dawson is leading this program.

PCG and PCTMSL both recognise that no one has a mandate to understand the connection of onshore and offshore datums, and both groups would like ICSM to recognise this risk. Brett highlighted the benefit of describing the societal benefits of this need.

**Action 12:** *Brett and Nick provide a technical document on the relationship and possible disconnect of onshore and offshore datums.*

There is high level and active representation on the PCG, as well as the modernisation and eGeodesy groups. Nick has reviewed the website information and it needs only minor updating. The term 'infrastructure' is used generically to cover various activities. Mike Burdett suggested that the only change might be to give some more details to the work program for better understanding by others.

### 3.3 Permanent Committee on Topographic Information (PCTI)

Simon Costello spoke to the report and wanted to draw attention to the broad remit of this Committee. It is currently undertaking focussed taskforces on historical aerial photography and elevation.

The aerial photography group had a meeting in Adelaide in March at which the taskforce reiterated the risk of the photography archives across the jurisdictions that are disintegrating before they can be digitised. The archives that have been digitised are being georeferenced to add further value to this data.

The elevation taskforce is coordinating collection activities and ELVIS has now replaced the NEDF portal. ELVIS is on the Amazon platform and uses FME. A workshop was recently held to develop a national elevation strategy that has been inspired by Cadastre2034.

PCTI at their recent meeting reviewed their strategic plan and Terms of Reference, which are contained in the report. Simon said that PCTI provides great value for coordination of custodianship of topographic data, which he would also like to see that articulated further in the Terms of Reference, as shared planning to reduce duplication as well as data being fit for purpose. There is an old PCTI strategic plan on the website, but like PCG, could be fairly easily updated to reflect current ToRs and work plans.

An elevation strategy is to be developed, inspired by Cadastre2034 and again being led by Lesley Arnold. A few years ago, USGS ran a study on the importance of elevation data, the gaps on US data and a strategy to deliver better coverage. There is GA funding available to substantially resource this project, however some further funding from ICSM may be required to complete. Simon will seek ICSM endorsement to support this strategy.

PCTI held a strategic elevation workshop at end of April which Lesley Arnold facilitating with Paul Duncan assisting. There was strong interest and attendance from the jurisdictions to this workshop. There is interest from industry who approached PCTI to also participate, i.e. Powercor (electricity network) wishes to share LiDAR they have collected. Both government and private agencies are running data collection programs, and there is a clear need for coordination to reduce costs to all. There is a wealth of additional data from Defence which could also be contributed.

Lesley Arnold has given a timetable to complete her outline by end of financial year; and expects that it will take a year to complete the whole strategy. An update report will be provided at the next meeting.

Dmitar Butrovski prepared a separate report on the Historic Aerial Photography project which also seeks ICSM support and endorsement to ensure this work is completed to digitise as much of the archive before it perishes. There is still much digitising to be completed, as well as georeferencing. If demand for the end product is generated, this makes it easier to attain funding for further work.

The representation is right for PCTI, but enabling delegates to travel to more face to face meetings is always an issue. There is continued support from the jurisdictions for PCTI's work, but the jurisdictions are unable to step up to take a leadership role which keeps falling to GA.

Depending on what form is decided upon as the template for Terms of Reference, Simon would like to have PCTI's custodianship of topographic data endorsed by ICSM.

*Action 25: PCTI custodianship of topographic data to be on teleconference agenda.*

### 3.4 Permanent Committee on Place Names (PCPN)

Susan Birtles (Deputy Chair PCPN) and John Tulloch both wished to thank Danielle Stefani for all her hard work, unfortunately today was her last day working at Landgate. ICSM has already acknowledged Danielle's valuable contribution to PCPN and the wider ICSM community.

The next meeting to be held in October in Sydney will concentrate on indigenous and cultural naming. They will also focus on the Maritime Gazetteer which is no longer being maintained or supported by the Hydrographic Service.

The methodology for producing the Gazetteer has now been automated, so an MOU or agreement under the NCF is no longer required. The new one will use an ELVIS style platform to create the gazetteer and streamline its production.

The work has been completed on the feature catalogue and it is now back with the jurisdictions to match data. This is a living document, so the baseline work does not need to be repeated in future.

The recommendation that Bill Watt be acting Chair and Susan as Deputy Chair with the secretariat role being shared by them both until the October meeting was endorsed by ICSM.

The strategic plan and Terms of Reference are out of date as shown on the website, and these will be reviewed pending the merger with PCA, new Chair and which template ICSM wished to adopt. The proposed work plan and ToRs were contained in the report, also based on the PCG model.

The action plan is a consistent approach across jurisdiction and addresses some of the FSDF work activities. ICSM gave in principle approval of the Strategic Plan and work program.

Bill Watt will finish as UNGEGN Chair in August this year and there is a request to fund him and another delegate to attend the upcoming New York meeting. This has been a continuing issue that this is the only UN representation requiring ICSM funding. The New Zealand government fully funds and supports Mark Dyer and Wendy Shaw's attendance at this meeting. GA supports Stuart Minchin's attendance at UNGGIM and Gary Johnson's various UN and other global obligations.

It was raised whether there was any benefit to Australia or ICSM to financially support such attendance, or is the benefit only to the UN? It has been previously investigated if DFAT might support this request, but their policy is not to contribute any such funding. John noted that having Bill as Chair gave Australia a stronger influence on policy and standards and Brian Sloan said there are further intangible benefits for the bigger UN picture (Security Council, etc). Whilst we agreed to support Bill while he was Chair of UNGEGN, has this set a precedent for ongoing funding of a regular committee member from Australia? Is this appropriate, particularly as other such representation is funded by federal agencies?

ICSM could understand supporting a second person to attend as part of transition, as well as the important work of place naming, but questioned the extra funding for Bill to stay a further week in New York for other meetings at request of UN, and should they be funding that portion of the trip. Michael Burdett would like to extend an invitation for Bill to address an ICSM meeting to give a full report on his contribution to UNGEGN. Susan said that there are some critical strategic issues to be decided at the next meeting that Australia would like to be able to influence. The UN has already funded some of Bill's travel this year. There are also some visibility issues, that a lot of the UNGEGN decisions that come back have been heavily influenced by Australia's participation, which can then be easily adopted by Australian naming boards without further work to be done on standards etc.



ICSM is aware it has deferred this decision a few times, but would like to see a stronger business case to support this considerable expenditure.

**Action 18:** PCPN to prepare a further business case to support travel to UNGEGN.

**Action 24:** Michael Giudici to invite Bill Watt to next ICSM meeting to give a report on his UNGEGN representation.

### 3.4.1 Permanent Committee on Addressing (PCA)

Within the PCPN report, was reference to the possible merger with PCA. Although there is an overlap with a few addressing and naming participants and issues, there is a strong preference to keep the committees as separate groups. NSW has a very clear addressing program, however PCA requires a new Chair and Sponsor (with John's impending retirement) to drive and reinvigorate this committee. PCPN was only stepping into the addressing space with the lack of PCA activity over the past couple of years.

PCPN would like to support the (new) PCA committee to hold a meeting in conjunction with their upcoming face to face in Sydney, which would be convenient for the 3 or 4 people on both committees to attend, particularly with ICSM to be invited to review the 4819 Addressing standard shortly.

Simon commented that the original working group to review the 4819 standard was stood up as a Special Interest Group, would it be more appropriate for the committee to return to this status as a taskforce or community of interest group. There are ongoing national interests that would support addressing to continue as a separate group. Susan said reviewing the standard was only part of the group's work plan, there are other ongoing issues, education and such to be completed.

In light of John Tulloch's impending retirement, Narelle Underwood is the ICSM Sponsor of both PCA and PCPN.

### 3.5 Permanent Committee on Tides and Mean Sea Level (PCTMSL)

Brett said meetings were held in conjunction with Ports Australia Hydrographic Surveyors working group, which brings together users and strategists.

PCTMSL thanked ICSM for its support of maintaining the infrastructure of the second Fort Denison gauge, which has been retained. The Port Stanvac gauge is to be reinstated in the area, once the costings are received from Bill Mitchell (BOM).

Defence is changing the way it does hydrography, with a white paper to contract and partner with industry to collect data for the Hydro survey program, instead of Navy ships and personnel. From about 2020 the funding should ramp up for this program, and it is expected to peak in 2026, assuming there is government agreement.

Brett is particularly interested in the work to be done in the coastal littoral zone and the interface with the AusHydroid as an extension of AusGeoid. The benefit will be as in the example of Port Hedland, that for every one centimetre that can be further loaded on bulk carriers equals an extra 1000 tonnes of iron ore. Further, by extending the hydroid modelling, where 3 carriers used to be able to leave on one tide, now 6 ships can do so. There is the obvious economic benefit, but there is a correlation of safety with the more detailed data. Nick Brown is keen to see some ICSM pilot projects linking the onshore and offshore datums and any other projects that might have large benefit for a small investment.

It may be possible to have a survey planning activity which will take into account State requirements. Michael Burdett queried whether there was enough expertise in industry to take on this work in the future, Brett said there will support available by Defence and industry to jointly build expertise and national capacity through education and other supply chain measures to ensure the expertise remains within Australia and not done by offshore companies. This will bring a range of holistic national outcomes, not just new charts.

Brett will liaise with Jasbir to update PCTMSL web presence to align with other committees, but have also reviewed and updated their work program.

The merger of AHO and AGO is proving to be very beneficial, as the AHO will be better resourced. They are now working more closely with jurisdictions, being able to fulfil their requirements as well as being more agile to complete such requests.

Brett is also working closely with Adam Greenland (NZ Hydrographer) to build regional capabilities, better tidal models and linking data. Mark Dyer agreed there was good connections between this committee and other geodetic, topo and cadastral work being undertaken.

## 4. Other ICSM activities

### 4.1 Industry Engagement Session

Alistair Byrom (SIBA), Roy Sommerville (SSSI), Paul Reed (SSSI), Chris Schlebusch (SIBA), Lee Hellen (SSSI) and Chris McAlister (QSSA) represented industry groups.

Michael Giudici noted that a few questions had been submitted in advance of this session. ICSM is about to publish its Strategic Plan that will be made available shortly. A round table review of the major ICSM activities was presented, particularly GDA2020, Cadastre2034 and the FSDF.

Chris McAlister asked when it is expected that GDA2020 would be adopted. Nick Brown said the first jurisdiction is expected to adopt from the end of this year and it is expected most jurisdictions would have adopted before 2020. Michael added there are many systems issues to be sorted out and jurisdictions have indicated once these issues are addressed it is expected most will be using GDA2020 by the middle of next year. There is a large role for professions to guide and educate downstream users on the change. It is also important to make a distinction on what is compliant and what is compatible depending on the scale.

Lee Hellen asked if ICSM and CRSBANZ were delivering nationally consistent outcomes and if conversations at government level were effective. Michael said the focus of our strategic plan and discussions during this meeting were to ensure the groups were well resourced to deliver outcomes. There is a lot of will to cooperate and the group was effective in communications between all the member jurisdictions.

**Action 26:** Lesley to forward to all industry groups the final ICSM Strategic Plan.

### 4.2 Positioning Update

Michael Burdett raised a topic regarding EDM Baseline. WA provided software on EDM calibration, and the software has reached end of life, but WA has no capacity to renew. SA has funding which could support the intellect provided by WA, to be provided to a software provider to convert to web based application to be hosted in cloud. The initial costs could be up to \$40,000 with some ongoing costs to host in the cloud. Michael wished to gauge how many were using this and if this is a viable proposition for others to also use. This probably would have a 5 year life cycle. SA would have the IP.

Queensland, ACT and Victoria all would use it  
Tasmania would not use as doesn't have baselines.  
NSW uses a spreadsheet.

Nick Brown noted there are problems with staff turnover and knowledge disappearing, whether baseline testing is still viable and if there are any legal implications if it is discontinued.

There is an alarming amount of EDM calibration failures, that are common in NSW and NT. There are many causes, surveyors not understanding the report, or not measuring properly, equipment being dropped or not serviced, etc. Queensland has a lot of failures of people doing mets badly. Calibration of instruments is different from traceability. There is a need to keep questioning the value, however National Measurement Act mandates calibration.

Tasmania calibrates against a standard calibrated instrument.

Matt Higgins (Qld) proposed getting David Martin (metrology expert, FIG France) to do an assessment of what is happening in Europe.

In New Zealand, Mark said surveyors have a responsibility to use equipment that is fit for purpose,



**Action 16:** PCG to monitor EDM calibration issues.

Nick thought putting the software in the cloud with ICSM support would be the best solution. Michael Burdett said that they have gone to tender, and if prices are reasonable, will have work completed in next financial year and will keep ICSM updated.

NPI funding may help support maintenance and upgrading of the CORS network, which is very costly for the States to maintain. GA could offer assistance to operate the network. There could be a fundamental shift in the way that the network will operate, there is now better understanding of the benefit of GA managing the infrastructure.

Matt added that there was Federal money provided to build 35 stations in the Fitzroy basin. Some of these have not had any usage since construction, as there is no mobile phone coverage for the users in the area to access. This demonstrates there is a limit as to how much you can expand and still be fit for purpose for users.

With the imminent use of GDA2020, in December Google will enable Android to access to chip in phones for measurement and phase data; and the French have just released some apps that do a precise point positioning for Android phones. This has been predicted to be coming for some time, now becoming a reality.

### 4.3 GDA Modernisation Implementation Working Group (GMIWG)

Due to time constraints the report was taken as read, Michael noting it was very comprehensive and was happy to take any questions on notice.

The members were happy to accept the report as presented.

## 5. Planning

### 5.1 Strategic Plan

ANZLIC adopted the Strategic Plan in principle, with some minor amendments: to change the timeline to mirror theirs (2016-2019) and that ANZLIC be specifically included in Areas of Influence.

Michael proposed that subject to those amendments, the Plan be adopted.

Mark raised that it was unclear what the role of ANZLIC contact officers was, and that we often don't have visibility of their work and what they were expected to achieve. Brian gave a brief outline that they were the single point of contact for ANZLIC members and gave briefings to ANZLIC member on meeting papers and other activities, but it is not consistent across jurisdictions.

**Action 08:** Brian Sloan/ANZLIC to give clear definition of role, expectations and outcomes of Contact Officers

Simon would like to see a mechanism to measure outcomes to be able to demonstrate and report to ANZLIC on these achievements.

**Action 27:** Michael Giudici to document Strategic Plan reporting mechanism. (AND FSDF, ITEM BELOW?)

### 5.2 FSDF Work Packages and Activities

Simon noted that only some of the working groups have in their work programs their contributions to the FSDF. He would like all working groups to ensure the work programs include FSDF outcomes, particularly as ICSM is the sponsor of the majority of themes.

Michael would also like to have this covered and included as part of the Permanent Committee review as part of this meeting.

### 5.3 Risk Plan

Michael asked if the risks should be altered and updated.

Mark Dyer noted the risk of delivering cadastral outcomes with the funding uncertainties and other risks of the divestment of the titling registries to private industry. There is also a large unknown risk regarding how this will develop and whether there would be any impact on investing in cadastral and geodetic programs. Mark said it is important to distinguish between system risks and ICSM committee risks.

There is a need to quantify and identify new risks and re-evaluate existing risks to new Strategic Plan

*Action 09: New risk regarding titling registries being privatised.*

*Action 10: Update Risk Plan out of session to reflect new Strategic Plan and circulate for comment.*

## 5.4 Succession Planning

Two nominations were received as the next Deputy Chair, being Simon Costello and Craig Sandy. Both gave a short outline of their vision for their future direction of ICSM. A vote was taken, with Simon being elected as the incoming Deputy Chair and Chair-elect 2018-2020.

With John Tulloch retiring at the end of May, a new sponsor is required for Place Names and Addressing committees. John believed with the synergies of these committees, it was useful that the same person continues to sponsor both. With the next meeting of these committees to be held in Sydney, Narelle Underwood would take on the role as an interim measure, pending whether the future Victorian ICSM representative wished to take up the role.

John's successor in Victoria has yet to be appointed, but it is expected that she/he would continue to be a member of the PCC and ICSM. There is still some restructuring occurring in his department, and John Gallagher being the Spatial Services manager, still has a strong interest to continue his involvement with ICSM.

Ron Jarman is planning to retire in December. Jeff Brown attended this meeting as part of Ron's succession planning to have a better understanding of ICSM. The ACT government is also restructuring their department, which may have an impact on who fulfils the ICSM and ANZLIC roles.

Brett Brace noted that his time as the Hydrographer will be ending soon. He will bring his successor to the next meeting to introduce her to ICSM.

## 6. ICSM Administration

### 6.1 Finance

Lesley Waterhouse reported that the budget was on track for 2016/17. The previous financial year cashbook is currently being audited. The only two major expenditures that were not part of the initial budget were the website redesign and the CRCSI contribution by PCC.

Some items have been reduced to be in line with the auditor's suggestion to have the forecast budget much closer to the actual expenditure and some items needed to be checked if funding was still required, such as for travel and meeting costs of the committees and working groups.

The subscription will increase by CPI, and will be close to \$10,000 before the GST component. It was asked of the jurisdictions if this threshold would cause any difficulties. It is anticipated it should not be an issue.

The 2017/18 budget was reviewed, and accepted with updates.

### 6.2 Website

Lesley reported on progress for delivery of the updated website. There has been an unknown delay by Oxide Interactive (web developer) in delivery of the site, which was supposed to go live with the FSDF one at Locate17. Due to the delay on their part, as compensation they are migrating all content from the old to new site.

As part of migrating the site to the Drupal/AWS platform, any external links to the site will break, however Oxide are also enabling a redirect service so that people will automatically be sent to the new site, once

published. There will still be some work to be done, particularly on the GDA2020/94 pages to update these as the new datum is gazetted.

The web statistics show that we have consistent pages views of nearly 300,000 for Fundamentals of Mapping each year and the GDA94 Technical Manual and the SP1 Standard for Survey Control are the most downloaded documents. With the promotion of GDA2020 in various publications, pages associated with new datum had a bounce of 8,000 views following a Spatial Source article.

Michael asked if the new site would have deeper analytics. We are still learning lessons from the FSDf site, which will be applied to the ICSM one.

John Tulloch asked why “The” ICSM was part of the banner. There was a short discussion as to the merits of the term and a vote was taken to remove “The”.

### **6.3 Document Register**

With various updates to Microsoft packages, the original Access database that was used to track changes to documents and the website, needs to be updated to the new format.

However the original Document Register has been maintained and is still current. This also has a historical record of all documents published by ICSM.

### **6.3 Next Meetings**

A teleconference will be held 13 July at 1pm AEST, to sign off on Permanent Committee structure and Terms of Reference as discussed at this meeting.

The next face to face meeting is scheduled to be the week of 13 November in Canberra (ACT hosting at Dickson, not Commonwealth). It is suggested to keep the similar format, having PCC Monday 13<sup>th</sup> November; ICSM 14<sup>th</sup> and 15<sup>th</sup> November.

The next ANZLIC meeting is 10 August in Adelaide, their third during last week November, Wellington NZ.

It was discussed if it were possible to break the nexus of PCC, ICSM and CRSBANZ meetings to be held concurrently, but at the moment it is still the most convenient way to do so.

## **7. Other Business**

### **7.1 Subsurface Standard (SUI)**

The subsurface standard is to be reviewed with the lead being taken by Engineers Australia, which will take into account the patent that prevented use of the guidelines and education package that ICSM helped to develop. Engineers Australia is hoping to build a training module for the standard which will make use of the ICSM material. Narelle Underwood will continue to provide ICSM with feedback on future developments regarding this standard.

Mark Dyer commented that as an extension of this, ICSM should be more active and involved with infrastructure and the built environment. These were some of the lessons learnt from the Christchurch recovery.

### **7.2 AGO Imagery**

AGO has purchased both the NaturalVue 2.0 and Delorme/Garmin datasets under a Whole of Australian Government (Federal) licence with unlimited access or user restrictions.

NaturalVue 2.0 – This is a global, cloud free satellite imagery mosaic using imagery that is predominately captured during 2015-2016. The data has been sharpened to a spatial resolution of 10 metres, from its original 15 metre source and is provided in both GeoTIFF and JPEG2000 formats.

Delorme/Garmin – This is a highly valuable, topographic feature vector dataset that is used for products with scales down to 1:200K - Globally

This year AGO has spent substantial amount on data and would like to share this with other federal and state agencies, rather than duplication of such purchases. Defence may be able to expand licensing to include jurisdictions when purchasing from commercial providers. There are very few datasets they haven't bought, and it would be comparably minimal costs to obtain further licences compared to jurisdictions buying/collecting separately. If members wish further details, Maree is happy to discuss details out of session.

Brett asked Brian if there is – or should be – a policy that covers such data sharing to automatically include State governments as part of Whole of Government licenses. Stuart Minchin (GA) is a member of the Defence Geospatial Board and it should be raised in that forum.

**Action 20:** Brian to take inclusion of States and Territories in Whole of Government licensing agreements to the Defence Geospatial Enterprise Board for discussion.

### 7.3 Common Delivery Platforms

Michael Burdett thought that with the release of Queensland Globe version 2, that similar products are delivered and built, that should be done by a single operator. Michael noted that the South Australian one is now 3 years old and soon due for a refresh, could this be done in a more cost efficient and collaborative manner. This is something we could take to ANZLIC to move towards a national approach for such a delivery platform. This service could also include data for small Pacific Islands that have no outlet to host their data.

Craig said that in the past the focus was only delivering data after it was verified as “correct” but now the expectation is to ship data ASAP and that it only be fit for purpose. ICSM working groups already have the collective expertise across all jurisdictions to do this. Narelle also commented that NSW is about to start the same process of updating their globe and portal, and already working in collaboration with Queensland and sharing code.

**Action 21:** Ongoing review and consideration for all members to collaborate on common delivery platforms and report to ANZLIC.

Simon said that this had already been raised at 1SDI as a piece of infrastructure that should be collaborated on, and ICSM should move quickly to control and run this and agreed with Craig that is now imperative to get the data out rather than spending time getting it right. Brian added that he was the policy holder for National Map and GA was the technology host while Data61 (CSIRO) does the development. He sees the data being collaboratively managed with delivery by multiple skins.

Maree noted there was a need to have common government requirements that visible to all and not consulting privately and individually. e.g. Maree has specific requirements for 3D capture, but needs to separate, repetitive consultations with individual jurisdictions to repeatedly find out their plans and requirements to collaborate. Simon commented that the user requirements can be captured on theLINK to gain greater visibility of both requirements and data availability. Simon would also like to see ICSM, PCTI or other committees take a stronger coordination and custodianship role. theLINK will expose data quality and gaps to assist in planning. theLINK will be further expanded and developed, depending on budget allocations, the extents of datasets.

**Action 28:** Michael Giudici to report to ANZLIC meeting concerning this item.

### 7.4 2026 Agenda

Chris McAlister talked about the CRCSI 2026 action plan that contains several things that ICSM and GA are already doing or involved with. Simon wanted to raise that ICSM should examine the document to ensure any activities we already have targeted, that we claim these activities to ensure ICSM is the driver of such projects.

Brian said that one of his actions from ANZLIC was to examine any gaps in the ANZLIC and ICSM strategic plans and the 2026 Agenda.

## 8. Closing

Michael thanked everyone for their efforts as part of the Permanent Committee review, and establishing the individual Terms of Reference to align with ICSM’s strategic direction.

He believed that there are positive signs of reinvigoration of some of the Permanent Committees and the succession procedures to ensure future viability.

Chris Body’s attendance clarified how standards cascade down and the importance of ICSM to maintain active involvement, as well as planning for future risks of personnel retiring.

Michael wanted to mark John Tulloch’s forthcoming retirement at the end of May and thank him for all his work on behalf of ICSM, particularly as Sponsor of the Permanent Committee on Addressing and Permanent Committee on Place Names over the last 13 or so years. He will be greatly missed and the entire ICSM community wish him all the best for the future.

John replied that ICSM keeps realising important and influential achievements and there is still an important role for ICSM and for the members, officers and staff to keep contributing to its success.

Michael thanked Russell for hosting us and showing us the sights of the city and to Jeff Brown for his attendance.

Finally, he thanked Craig for his persistence in attending and contributing via teleconference.

## 9. Actions

No.	Previous open actions:	By:	Completed/ Due Date
Chc 13	Jasbir to request that Bill Mitchell (BOM) clarify and produce a business case for the rebuilding and maintenance of the Port Stanvac tide gauge.	Jasbir Randhawa	Bill Mitchell spoke to SA Dept of Environment. A tide gauge to be installed at boat ramp 2km away from previous gauge. Michael Burdett is still waiting for Bill to supply costings to finalise business case. <b>Open.</b>
P 15	Once the strategy documentation is completed, the future funding allocations be examined by all ICSM to produce a more balanced budget.	All ICSM Executive	On going, carry forward.

No.	Brisbane Actions	By:	Completed/ Due Date
01	Brian Sloan to circulate membership list of 2026 Leadership group to ICSM.	Brian Sloan	.
02	Lesley to circulate email linking Productivity report.	Lesley	Completed.
03	Brian Sloan to report back to ICSM regarding obligations of custodians to retain source data.	Brian Sloan	
04	Brian Sloan will clarify which land ownership data is being rated on GODI, as Commonwealth does not own this data. It should be noted that at least, the land ownership date in Australia is up to date and publicly available and these categories should be ‘green’.	Brian Sloan	

05	ICSM to report to ANZLIC highlighting the risks of not being involved in standards and the need to provide a sustainable resource. ICSM takes an "overseeing" role, but individual agencies via working groups take leads, particularly where having a working standard helps their business.	Michael Giudici, Brian Sloan & Chris Body	
06	Chris Body to advise PSMA a contact to ensure standards are being followed in API development.	Chris Body	
07	PSMA and Simon/PCTI (on behalf of jurisdictions) to liaise regarding Australian data node.	Simon, PCTI, PSMA	
08	Brian Sloan/ANZLIC to give clear definition of role, expectations and outcomes of Contact Officers.	Brian, Michael and Mark	
09	New risk regarding titling registries being privatised.	Michael & ICSM	
10	Update Risk Plan out of session to reflect new Strategic Plan and circulate for comment.	Michael, Lesley	
11	Ron, Brian and Simon to conduct a gap analysis to assist in forming a work program for DCDB.	Ron Jarman, Brian Sloan, Simon Costello	
12	Brett and Nick provide a technical document on the relationship and possible disconnect of onshore and offshore datums.	Brett Brace Nicholas Brown	
13	Russell to note conversation and refine PCC Terms of Reference for out of session endorsement.	Russell Priebbenow	
14	All jurisdictions consider the maritime region of their state borders	All ICSM	
15	Where there is agreement on borders, all jurisdictions forward that data to GA (not for release, for internal use only)	All ICSM	
16	PCG to monitor EDM calibration issues.		
17	ICSM acknowledge Danielle Stefani's contribution to ICSM as Chair of PCPN.	Lesley Waterhouse	
18	PCPN to prepare a further business case to support travel to UNGEGN.	Narelle Underwood	
19	Subscription invoices to be sent by end of May, noting CPI increase.	Lesley Waterhouse	
20	Brian to take inclusion of States and Territories in Whole of Government licensing agreements to the Defence Geospatial Enterprise Board for discussion.	Brian Sloan Maree Wilson	
21	Ongoing review and consideration for all members to collaborate on common delivery platforms and report to ANZLIC.	All ICSM	

22	Update the collective Working Group Terms of Reference document as baseline for new ToR template.	Lesley Waterhouse Michael Giudici Michael Burdett Simon Costello	
23	Outcomes/goals in Strategic Plan to be numbered for ease of future reporting.	Lesley Waterhouse	Closed, different method employed to report.
24	Michael Giudici to invite Bill Watt to next ICSM meeting to give a report on his UNGEGN representation.	Michael	
25	PCTI custodianship of topographic data to be on teleconference agenda.		
26	Lesley to forward to all industry groups the final ICSM Strategic Plan.		
27	Michael Giudici to document Strategic Plan reporting mechanism.		
28	Michael Giudici to report to ANZLIC meeting concerning jurisdictions collaborating on common delivery platforms with different skins to suit individual needs.		

## 10. Resolutions

<b>R17/05/01</b>	<b>ICSM Deputy Chair</b>	<b>May 2017</b>
ICSM <b>RESOLVED</b> that Simon Costello to be the next Deputy Chair and Chair-elect of ICSM.		

## 11. Agreements

<b>A17/05/01</b>	<b>ePlan Chair.</b>	<b>May 2017</b>
ICSM <b>agrees</b> to endorse Craig Sandy (NT) as Chair of the ePlan Working Group.		
<b>A17/05/02</b>	<b>PCPN Chair.</b>	<b>May 2017</b>
ICSM <b>agrees</b> to endorse Bill Watt be acting PCPN Chair and Susan as Deputy Chair with the secretariat role being shared by them both until the PCPN October meeting.		