



FMMS NEWS



FMMS Data fell from the sky!!

KDR recently completed an exercise to upload Infrastructure Asset Data for Pacific National Tasmania.

Unlike the usual 'spreadsheet' uploads that have been done in the past, this one was more than a little different as it was based on GPS readings that were taken at 5 meter intervals from a vehicle that was traversing the railway tracks of Tasmania.

The readings were collated and loaded into a holding database table and then 'interpreted' via some fancy FMMS code to generate Asset information. A sample of the readings is shown below as is the resultant 'Linear Asset' display over our much discussed but never maligned map of Tassie.

For the mathematicians among you, this process involved some complicated algorithms that included converting UTM GPS coordinates (Northings & Eastings) to the standard Longitude/Latitude ones utilised by the Linear Asset capabilities of FMMS. The code was downloaded from the Internet and converted from C# to Openroad as per the sample below:

There was also a need to calculate the distance between two pairs of co-ordinates in order to determine the 'parent' facility to which an asset belonged. This process will be useful for the Crew Despatch function of our Field Services module.

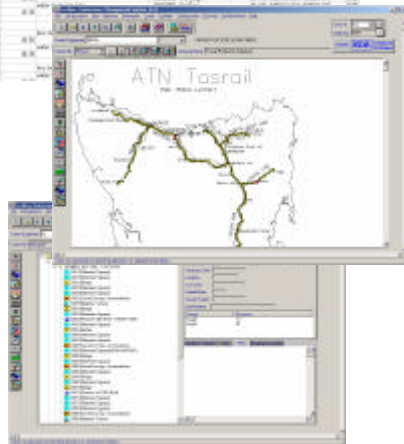
The next phase of the exercise may involve calculation of track curvature data and gradients based on the altitudes also recorded with the GPS readings. - Kevin Ramsey

Special points of interest:

- Southern Hydro Demo
- FMMS in Chinese and Spanish!
- Central American Distributor Appointed
- Launch of the new KDR Help Desk

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```
Script Editor: fm_utm_longlat_convert
File Edit Find Font Help
[Toolbar icons]
deg3rad = pi / 180.0;
rad2deg = 180.0 / pi;
if utm_northing != 0 and utm_easting != 0 then
/* convert UTM to Long/Lat */
if utm_ellipse = 'WGS84' then
eccsquared = 0.00669438;
equatorialradius = 6378137;
else
return 1;
endif;
ecc_constant = (1 - sqrt(1 - eccsquared)) / (1 + sqrt(1 - eccsquared));
utm_easting = utm_easting - 500000.0;
if utm_hemisphere = 'S' then
utm_northing = utm_northing - 10000000.0;
endif;
longorigin = (utm_zone - 1) * 6 - 180 + 3; /* +3 puts origin in middle
eccprimesquared = |eccsquared| / (1 - eccsquared);
m_variable = utm_northing / k_constant;
wu_variable = m_variable /
|equatorialradius *
|1 - eccsquared/4 - 3 * eccsquared *
eccsquared/64 - 5 * eccsquared * eccsquared
* eccsquared / 256);
philrad = wu_variable +
(3 * ecc_constant / 3 - 27 * ecc_constant * ecc_constant
* ecc_constant / 32) * sin(2 * wu_variable)
+ (21 * ecc_constant * ecc_constant / 16 - 55 * ecc_constant
* ecc_constant * ecc_constant * ecc_constant / 32)
* sin(4 * wu_variable)
+ (151 * ecc_constant * ecc_constant * ecc_constant / 96)
```

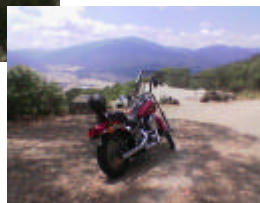
Perks of the Job

Earlier this year, KDR conducted an FMMS presentation to Southern Hydro. Their offices are in Mt. Beauty, a picturesque Victorian town at the foot of Mount Bogong and a final pit stop for travellers to Falls Creek. Given a perfect summer's day and a mo-



run, the call of 'heavy

torcycle that was in need of a decent



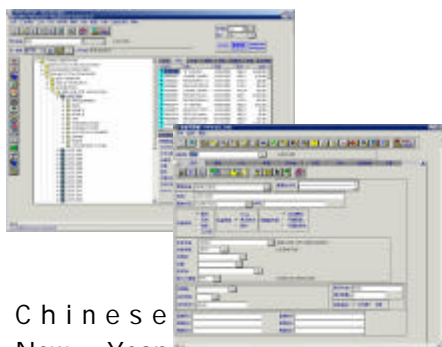
metal thunder' was too great to ignore for the presenter, resulting in an 800 kilometre trip from Ocean Grove to Mount Beauty returning to Melton (only to run out of petrol 3 klm from home).

-Kevin Ramsey

KDR Calendar

| | | |
|-----------|---|--|
| March | 16 | AIIA VIC Event Meeting |
| | 25 - 28 | Easter |
| April | 4 | Launch of new Help Desk |
| | 6 | Australian Railway Industry Corporation Luncheon- Sydney |
| | 12-13 | FMMS 4.2 Upgrade Training - Perth |
| May | PSDG Meeting Dates and venue to be confirmed | |
| June | 21 | Africa Rail Conference- Johannesburg South Africa |
| July | | |
| August | | |
| September | 25 | AREMA 2005 Annual Conference and Exposition- Chicago USA |
| October | FMMS User Group Conference - Dates to be confirmed Next release of FMMS - date to be confirmed | |
| November | | |
| December | Breakfast by the Yarra - date to be confirmed | |

Yum Cha

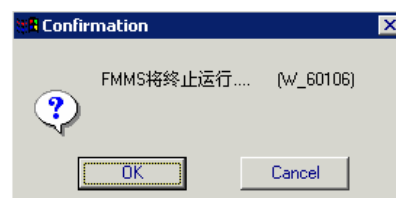


Chinese New Year

took on a special significance for KDR with the prospect that a Chinese Version of FMMS was

nearing completion. While KDR staff enjoyed a lunch of assorted Yum Cha and exotic Chinese Cuisine on February 9, potential business partners in Beijing were able to access our FMMS demonstration web site which has been extended to include multi-lingual versions of FMMS including Chinese, Spanish and of course, KDR's own

brand of English.



(Hint: you see this message when you exit FMMS)

- Kevin Ramsey

KDR Appoints Central American Distributor for FMMS

At a recent visit to Guatemala City, KDR's Business Development Manager Geoff Montgomery met up with Mr Alfredo Sanchez to formalize an alliance with Mr Sanchez's company, COAMPSA. COAMPSA have been offering Maintenance Consulting services since 1974 and have helped customers drastically reduce their maintenance costs while increasing and guaranteeing production by implementing their *Programmed Maintenance System* (PMS) or by optimizing existing maintenance plans. The PMS system incorporates Preventive Maintenance, Predictive Maintenance, and Condition Monitoring concepts, and was originally conceived for the oil refinery indus-



Geoff Montgomery with COAMPSA's Mr Alfredo Sanchez

try where it achieved over 70% costs reductions.

Mr Sanchez saw the need to enhance their product-offering for customers in Central America and chose to develop a closer working relationship with KDR Creative Software for this purpose. "With the FMMS product suite, we can now automate

clients maintenance operations (including inventory) through the implementation of KDR's Facilities Maintenance System (FMMS)." KDR has also achieved many successes for clients in the oil industry with clients such as BHP Petroleum, Mobil Oil, and Newfield Exploration.

"Furthermore, the Spanish version of FMMS will be highly regarded by Latin American companies where Spanish is the predominant language."

COAMPSA's services and systems are not restricted to the oil industry. COAMPSA boast a long list of Central American clients across a broad and diverse group of industry types.

FMMS in Spanish

KDR is committed to providing quality software to industries in Central America. As a result of work from KDR's Colorado office and in collaboration with local Guatemalan distributor, COAMPSA a Spanish version of FMMS is now available for Latin American companies.

Providing Facilities Maintenance Management System (FMMS) in languages other than English is not new to KDR. Indeed the FMMS product incorporated translation capability from its most early versions. It has always been KDR's vision to provide

user-friendly software to a worldwide market place and that vision extended to local languages for all personnel who would be interacting with the system. The first translation to Italian was made available to clients in 1996.

A translated version of FMMS is not an expensive customization. Technically speaking, translation is achieved via a common table that uses *'language id'* as an identifier to select the rules to be applied to the currently running instance of FMMS. This identifier is based on standard FMMS constants and therefore may be defined for the whole of the

FMMS site, for a specific workshop or for a specific FMMS user.

If you are a Latin American company requiring Spanish language for your maintenance personnel and want to find out more about how FMMS can bring improvements to your maintenance operation, contact KDR's Colorado office gmontgomery@kdrinc.com or COAMPSA info@coampsacom in Guatemala City.

KDR Creative Software

Suite 15,
85 Turner Street
Port Melbourne Vic., 3207

Phone: +61 3 9646 1788
Fax: +61 3 9646 9680
Email: kdr@kdr.com.au

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providing solutions to a
Global Market



Geoff Montgomery with his daughter Victoria participating in the Great Vic Bike Ride

It is with great pleasure that we announce the go 'live' dates for the re-vamped KDR Help Desk. Some of you may have already experienced the wonders of this new system but if not give it a go!!!

Help Desk

Log your Request for Services over the [kdr web- site](http://kdr.com.au).

www.kdr.com.au

As you are aware KDR Creative Software has maintained a clear and efficient system for handling client and distributors queries, suggestions and enhancements, our Request for Service. We have developed the system further in order to improve our service for your requirements. A Help Desk has been implemented of which you will have one point of call to the Help Desk Consultant. Your queries can then be handled directly over the phone, or escalated to a Request for Service and directed by the Help Desk Consultant to the appropriate department within KDR.

The new Help Desk is available to you from Monday 4th April , and we look forward to continuing to provide an efficient Help Desk system.

If you have any suggestions, comments etc about our new phase please do not hesitate to contact KDR with these.

Please find the 'Help Desk What you need to know' policy and procedure document for your perusal on our website.

Also please note that it is our policy to have one point of contact per company to register RFS's. Please provide your nominated persons name and their contact details.

Internal Gossip

Despite a rigorous travel schedule Geoff Montgomery (KDR's Business Development Manager) still finds the time to get the occasional bit of exercise in. Earlier this month he took the opportunity of a road closure for the Great Vic Bike Ride (an annual event run by Bicycle Victoria) to cycle with his daughter Victoria along the Great Ocean Road.

The two of them joined another 8,000 cyclist to ride 80 kms along one of Australia's most visually spectacular and historic roads.

On another occasion he was seen again with Victoria and son in-law, John Hutchison on the beach at Mornington, participating in a heat of the Protiviti Triathlon Series. All



three performed well, each finishing under personal best times for the distance. A cruel bystander did suggest that this was Geoff's first time at that distance, but was quickly silenced.

The activity of keeping fit at KDR is not restricted to one individual. Owner and CEO, Kevin Ramsey joined Geoff at the Sun Herald Olympic Dream 10K Fun Run. Both finished under an hour, both complaining to the organisers about how they could call the event a 'FUN' run.

Geoff applies the same tenacity to his work as he does to his fitness-training schedule. This year in his capacity of KDR's Business Development Manager he has focused on the North America market place. Based

in Colorado Springs, he traveled extensively for business meetings, exhibitions and conferences in Greenville, Denver, Nashville, Pueblo and Chicago. Future commitment will likely encompass Guatemala and KDR's other focus market place – China, as KDR continue with their push into the global rail marketplace.



DEPARTMENTS BONUS

Welcome to Keegan Ramsey into the Client Services department of KDR Creative Software. This is in between his study commitments for a Bachelor of Applied Science in Information Technology. GOOD LUCK...with the degree we mean!