

Resources and Support for High-Precision Real-Time GNSS Networks

CGSIC Surveying, Mapping, and
Geosciences Session – CORS Forum
September 25th, 2007 - Fort Worth, TX
Gavin Schrock, PLS

















On-Grid Goals and Objectives

"To develop, on the national level, a program to assist locally or regionally driven initiatives in the establishment, maintenance, and operation of realtime GPS infrastructure networks to serve the widest possible range of public and private sector interests"



On-Grid Goals and Objectives

Resources



Expertise



Policy Assistance



Cooperative Efforts





On-Grid Goals and Objectives - NOT

Rules



Big Funding



Public Sector Only



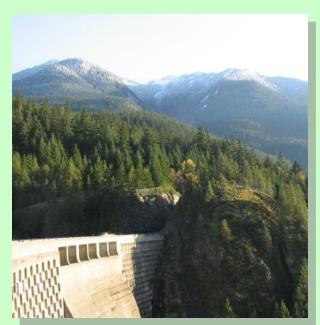
Proprietary Solutions











Reference Stations



















On-Grid - Forums



- American Congress Surveying & Mapping ACSM
- National Society of Professional Surveyors NSPS
- Real-Time Network (RTN) Administrators
- Local and State Industry Associations
- 2006 NGS CORS Forum @ CGSIC
- International NTRIP Symposium (BKG)
- Trade/User Conferences
- US Chamber of Commerce
- International Conferences and Visiting Study Groups
- PNT Architecture Workshops
- Presentations for Representatives and Staffers



Geodesy - Reference Framework



- Guidelines Sought
- NGS Real-Time-Network Team
- NGS Guidelines for CORS
- International Examples (e.g. SAPOS)





Outreach & Education

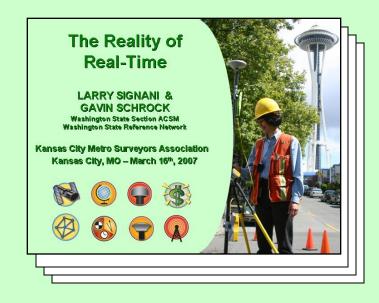


ACSM Seminars – RTN Fundamentals











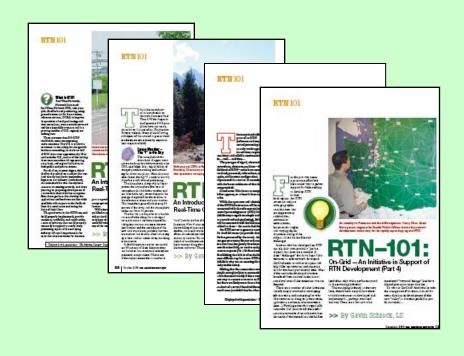






Outreach & Education

RTN101 – Article Series





Business Model Boilerplates

User Agreements







USER AGREEMENT			
	_		
	_		



Business Model Boilerplates

Partnership Agreements





PARTNER AGREEMENT			



Business Model Boilerplates

School Sites





RTN "SCHOOLNET"		

"Schoolnet" Model Similar to School Cooperative Meteorological Sites

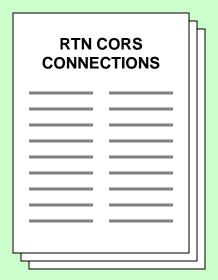


Business Model Boilerplates

Communications – IT Guidelines









Business Model Boilerplates

Cost-Benefit Analyses



RTN COST_BENEFIT			
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Policy Considerations

Representatives and Staffer Suggestions



- Consistency in Agency Site Policy
- Evaluation of Application
- Existing CORS Access and Upgrades
- Project Based Participation
- Security Policy



Policy Considerations

Consistency in Agency Site Policy











Policy Considerations

Evaluation of Application





Continue to bear costs of conventional methods without question?



Policy Considerations

Evaluation of Application





Would investments in local or regional RTN reduce total project costs?



Policy Considerations

Existing CORS Access and Upgrades





Should there be open access to real-time data from existing CORS?

Should new CORS be dualfrequency

Should existing singlefrequency CORS be upgraded to dual-frequency



Policy Considerations

Security Risk?



RTN are not an additional security risk...

Official statement needed



On-Grid Proposed Actions











Programs? Bill? Directives? Bake-Sales?

On-Grid participants have been very effective in articulating their needs, but need a lot of help in framing any national level actions...



On-Grid

Most potential RTN participants experience some level of resistance seeking authorization from above...

Often the higher authorities are simply waiting for an OK from even higher authorities...

Sometimes it is as simple as hearing those three magic words:

This is Cool!





Thank You!

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