

FIG

FIG WORKING WEEK 2017

Helsinki Finland

29 May - 2 June 2017

*Presented at the FIG Working Week 2017,
May 29 - June 2, 2017 in Helsinki, Finland*

Serbian Profile of the Land Administration Domain Model

**Aleksandra RADULOVIĆ, Dubravka
SLADIĆ and Miro GOVEDARICA**

**University of Novi Sad
Faculty of Technical Sciences, Serbia**

Surveying the world of tomorrow -
From digitalisation to augmented reality

Organised by



Platinum Sponsors:



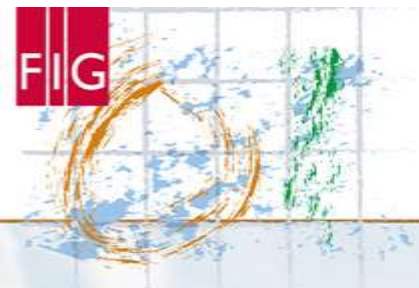


FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

Introduction

- Cadastral records in the territory of Serbia met many problems
- How to overcome the problems?
- How to achieve efficient access, sharing and exchange of cadastral data?
- Answer lies in data modeling according to **standards** and **national laws**



Platinum Sponsors:



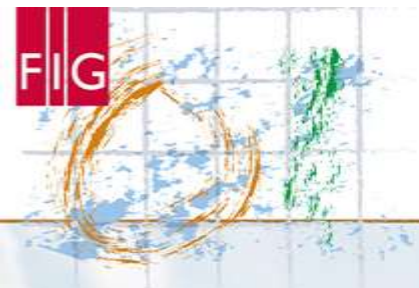


FIG WORKING WEEK 2017

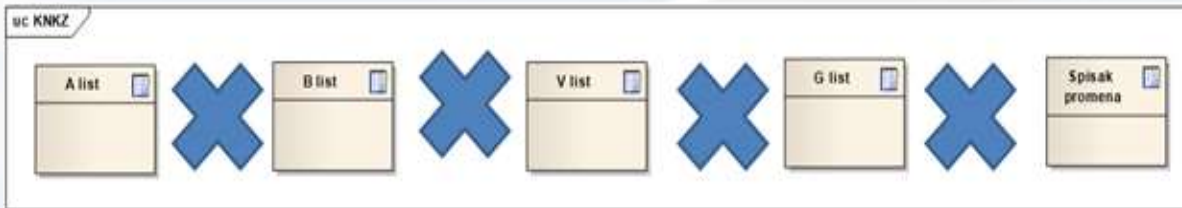
Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

Real Estate Information System in Serbia

Problems:



Law on State Survey and Cadastre (1988) - applied

Law on State Survey and Cadastre (2009) - not applied???



Platinum Sponsors:



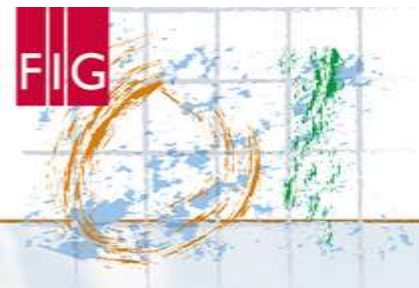


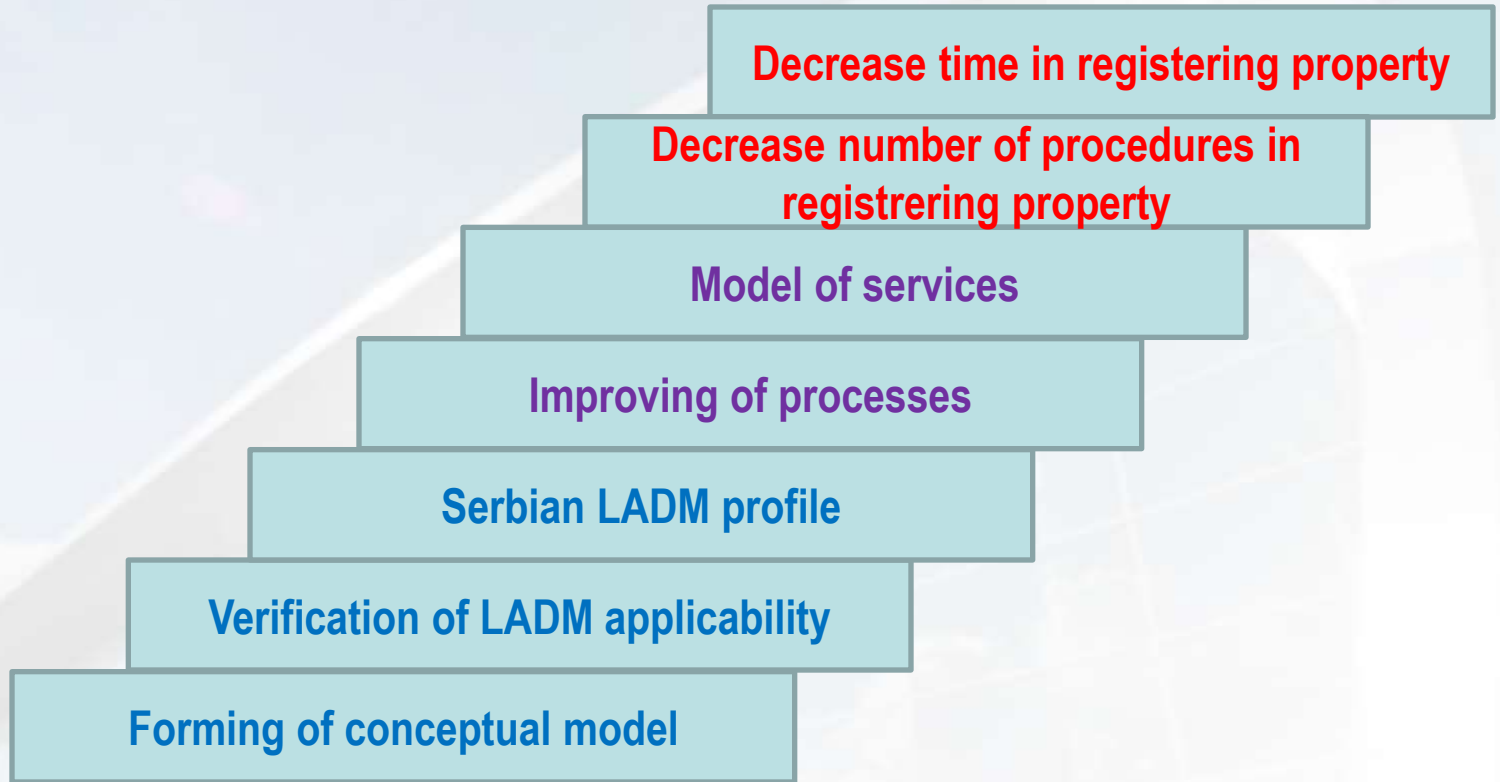
FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

Steps towards solution



Platinum Sponsors:



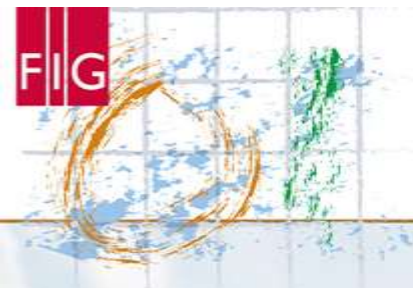


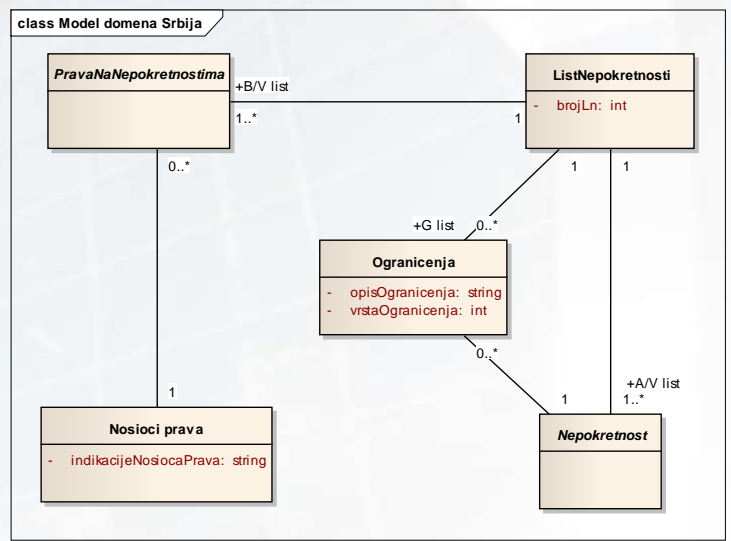
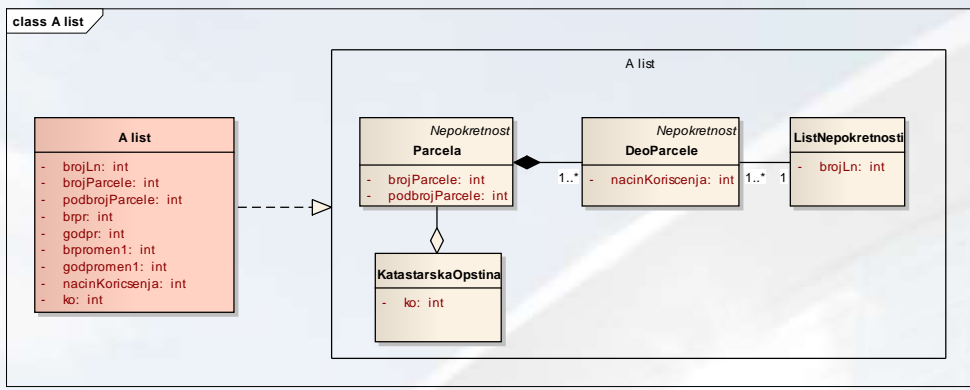
FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

Forming of conceptual model



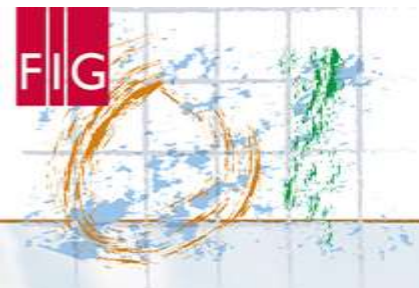


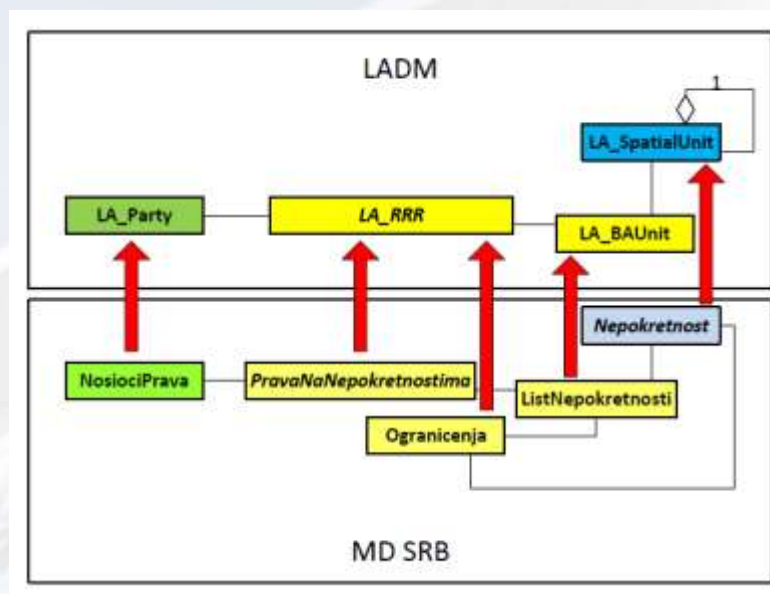
FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

Verification of LADM applicability



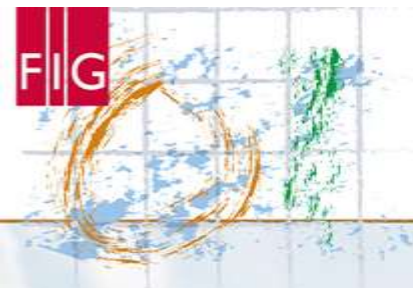


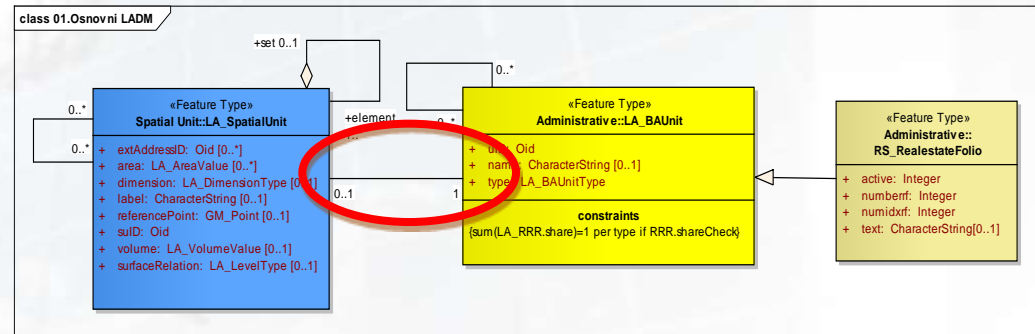
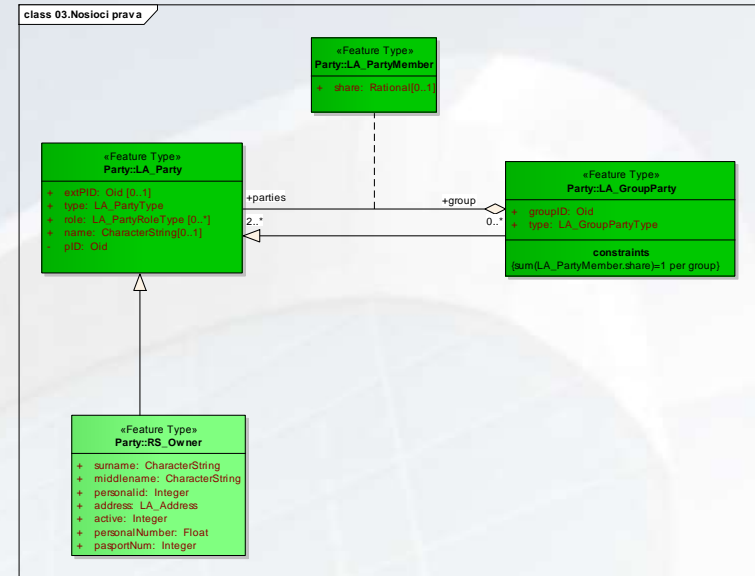
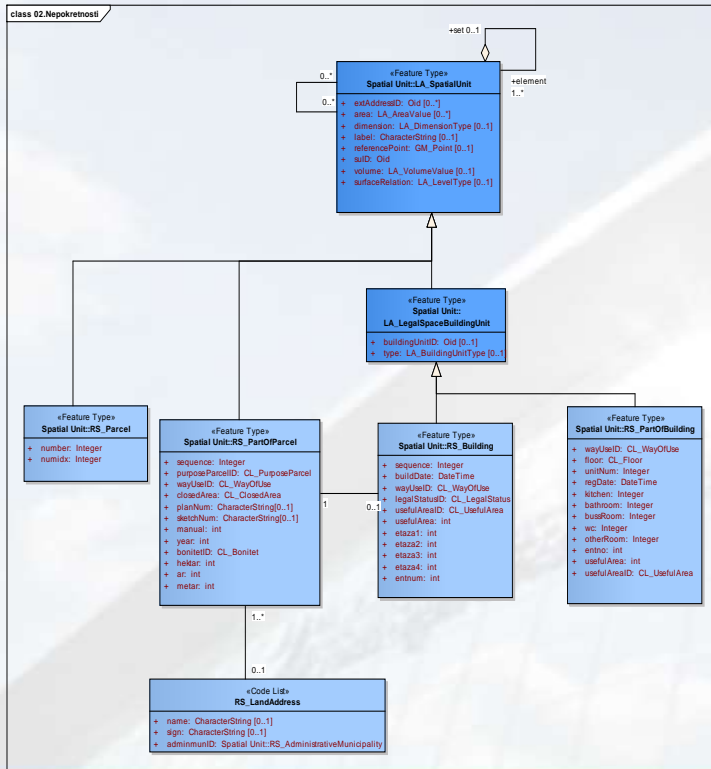
FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

Serbian LADM profile



Platinum Sponsors:



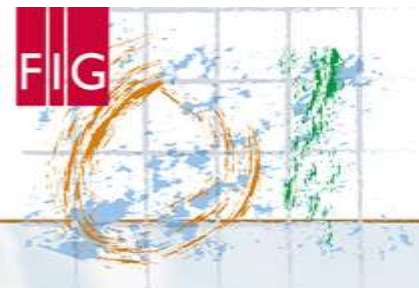


FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

Serbian LADM profile

Serbian conceptual data model	LADM class	Serbian profile class
Spatial Unit Package		
Parcela	LA_SpatialUnit	RS_Parcel
DeoParcele	LA_SpatialUnit	RS_PartOfParcel
Objekat		
PosebanDeoObjekta	LA_LegalSpaceBuildingUnit	RS_Building
	LA_LegalSpaceBuildingUnit	RS_PartOfBuilding
KatastarskaOpstina	LA_SpatialUnitGroup	RS_CadastralMunicipality
-	LA_SpatialUnitGroup	RS_AdministrativeMunicipality
-	LA_SpatialUnitGroup	RS_City
-	LA_SpatialUnitGroup	RS_Country
Party package		
NosiociPrava	LA_Party	RS_Owner
Administrative Package		
ListNepokretnosti	LA_BAUnit	RS_RealestateFolio
PravaNaParceli	LA_Right	RS_Ownership
PravaNaObjektulPosDelu	LA_Right	RS_Ownership
Ograničenja	LA_Restriction	RS_Restriction
Promene	-	RS_Changelist
Surveying And Representations Subpackage		
-	LA_Point	RS_Point
-	LA_Point	RS_BasePoint
-	LA_Point	RS_DetailPoint
-	LA_BoundaryFaceString	RS_PolyLine
-	LA_BoundaryFaceString	RS_LineSegment
-	LA_BoundaryFaceString	RS_Polygon



Platinum Sponsors:



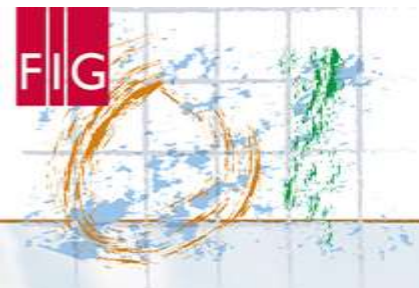


FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

Conclusion

- Restructured data model according to standards in the field of spatial data and national law
 - for valid procedures in cadastre
 - for the development of NSDI
- Next step
 - solving the problem of data redundancy, finding data, data migration, lack of harmonization between data, poor accessibility
 - develop and implement service model
 - implementation of e-government services



Platinum Sponsors:



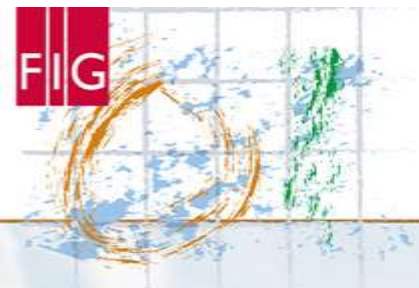


FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

**The End....
Or is it just beginning?**

*An ounce of practice is worth
more than tons of preaching ~
Gandhi*



Platinum Sponsors:

