Land Parcel Location Via Quick Response (QR) Code

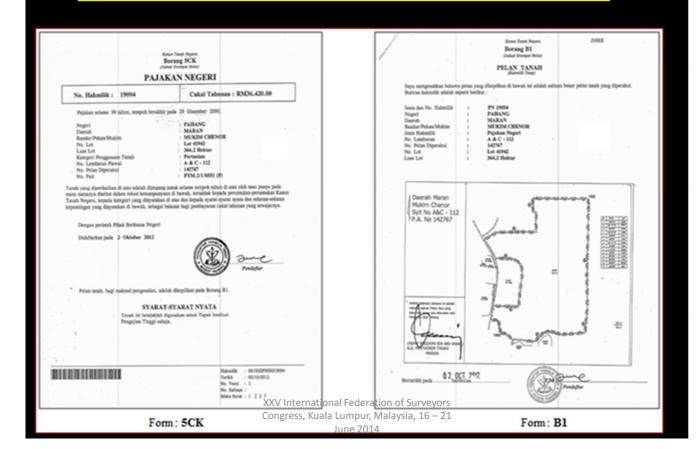
Jasmee Jaafar, Suriati Juhari, Roslina Idris & Mohammed Yaziz Ahmad
Center For Geospatial Technology
Faculty of Architecture, Planning & Surveying
Universiti Teknologi MARA
Malaysia

MOTIVATION

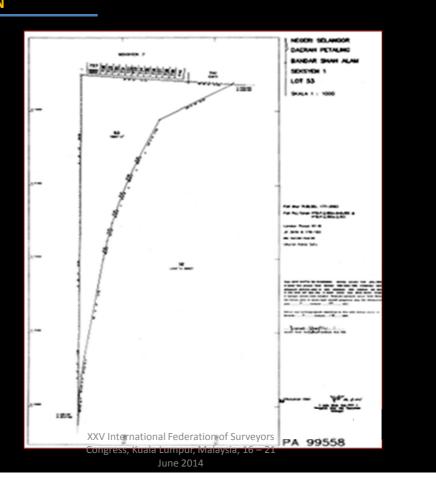
[INCONVENIENCE]

To locate the land parcel location on the ground?

[LANDTITLE in Malaysia]

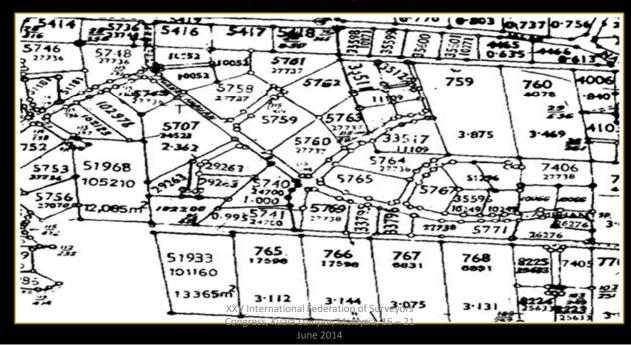


CERTIFIED PLAN



HOW TO LOCATE ON THE GROUND?

.... more information from the State Land Office or Department of Survey & Mapping Malaysia



[QR CODE: QUICK RESPOND CODE]

[SOLUTION]



An integration of Quick Response (QR) code and Google Earth/Maps platform towards locating the land parcel automatically

[QR CODE : Brief History]

The QR code system was invented in 1994 by <u>Denso</u> Wave: Designed for Automotive industry.

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[QRCODE: READER]

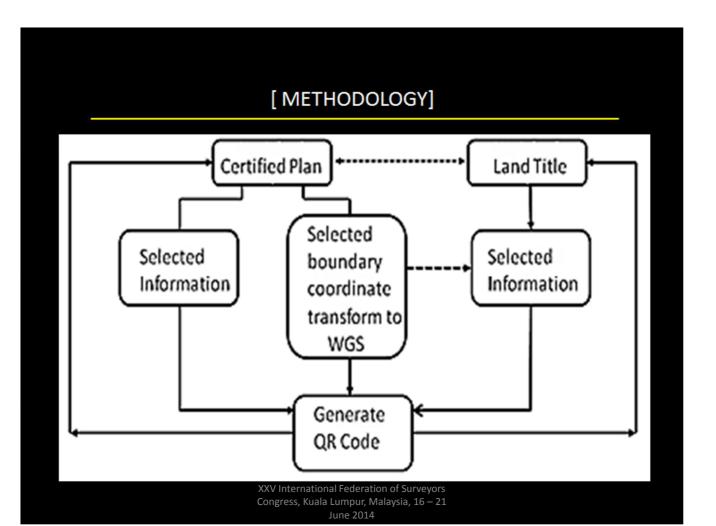


[SMARTPHONE]

41% of Malaysian Smartphone users surveyed would rather give up their television than their mobile device

Malaysians and Smartphones							
88%	91%	90%	69%	43%	41%		

Research conducted by IPSOS MediaCT (The Media, Content and Technology Research Specialists) on How the Smartphones serve as an important role in human daily life, 2013.

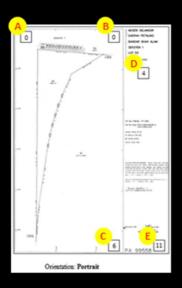


[QRCODE: READER]

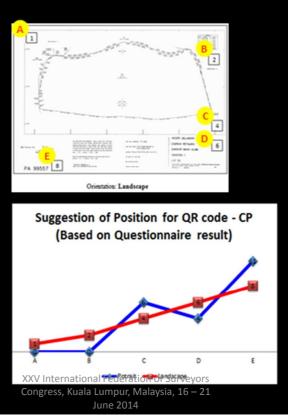
	PDF417	DATA MATRIX	MAXI CODE	QR Code	
Developer (Country)	Symbol (USA)	CI Matrix (USA)	UPS (USA)	DENSO (Japan)	
Code type	Multi-low	Matrix	Matrix	Matrix	
Data size (Alphanumeric)	1,850	2,355	93	4,296	
Characteristics	High capacity	High capacity Small space	Fast reading	High capacity Small space Fast reading	
Main market	OA	FA, Medical	Logistics	All industries	
Standard	AIMI ISO	AIMI ISO	AIMI ISO	AIMI ISO JIS	

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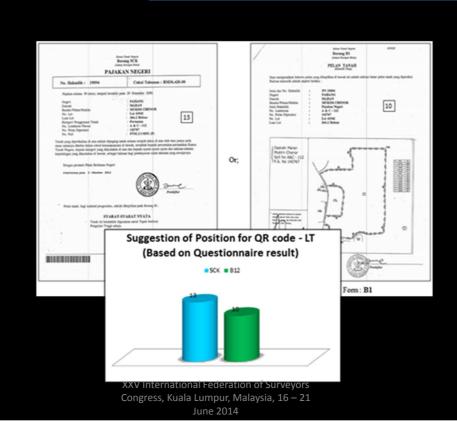
Proposed QR CODE LOCATION ACCORD SQUARCE VALUE SOCIAL TOTAL STATE AND THE STATE AND T



OR CODE POSITIONING ON CERTIFIED PLAN



OR CODE POSITIONING ON LAND TITLE



Proposed QR CODE LOCATION SUBSTITUTE OF THE PROPERTY OF THE P



QUANTITATIVE ASESSMENT OF POINTS

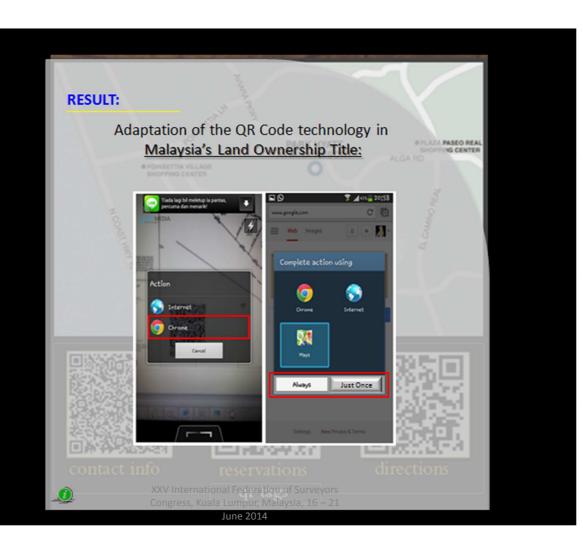
Town	P o i	Known position on the ground (Google Image)		Position on Google image based on CP coordinate		Different in Degree		Error (m)
	n t	Lat	Long	Lat	Long	Lat	Long	
Shah Alam	A	3.06716	101.50435	3.067108	101.504361	0.000052	-0.000011	5.7
Shah Alam	В	3.066636	101.505429	3.066599	101.505441	0.000037	-0.000012	4.2
Kuala Lumpur	С	3.149588	101.693367	3.149538	101.693374	0.000050	-0.000007	5.5
Kelantan	D	6.116489	102.230146	6.116456	102.23015	0.000033	-0.000004	3.5
Terengganu	E	4.704944	103.443278	4.704911	103.443301	0.000033	-0.000023	4.3
Johor	F	2.487547	102.729469	2.487485	102.729482	0.000062	-0.000013	6.8

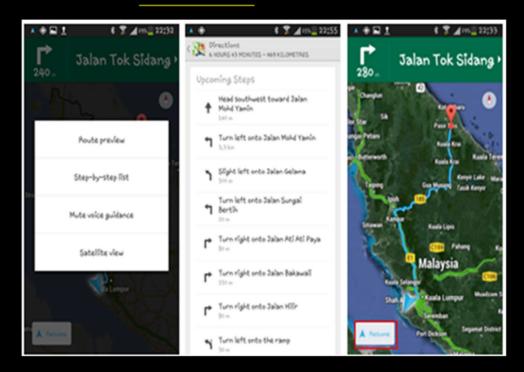
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QUANTITATIVE ASESSMENT OF POINTS









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CONCLUSION

- · Locating land parcel using QR code can save time and cost [Google Map],
- It is easy to operate,
- · Could be done almost from anywhere, anytime all year round (24/7/365),
- · Data sharing could be done easily via sms, email, and media social,
- · Location Information is accurate to a diversity of users, and
- Act as a security measures.

 XXV International Federation of Surveyors.

 Act as a security measures.

 XXV International Federation of Surveyors.

ACKNOWLEDGEMENT

JURUKUR FAKARUDIN [Product Representative]
[LY 2013001120: Patent Number]

DSMM: Department of Survey & Mapping Malaysia

CGT (Center for Geospatial Technology), <u>UiTM</u> Shah Alam

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THANK YOU

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