Land Parcel Location Via Quick Response (QR) Code

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MOTIVATION

[INCONVENIENCE]

To locate the land parcel location on the ground?
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 Denso Wave: Designed for Automotive industry.

[QR CODE: READER]
41% of Malaysian Smartphone users surveyed would rather give up their television than their mobile device.

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.
[QR CODE: READER]

<table>
<thead>
<tr>
<th>Developer (Country)</th>
<th>Symbol (USA)</th>
<th>CI Matrix (USA)</th>
<th>UPS (USA)</th>
<th>DENSO (Japan)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code type</td>
<td>Multi-low</td>
<td>Matrix</td>
<td>Matrix</td>
<td>Matrix</td>
</tr>
<tr>
<td>Data size (Alphanumeric)</td>
<td>1,850</td>
<td>2,355</td>
<td>93</td>
<td>4,296</td>
</tr>
<tr>
<td>Characteristics</td>
<td>High capacity</td>
<td>High capacity Small space Fast reading</td>
<td>High capacity Small space Fast reading</td>
<td></td>
</tr>
<tr>
<td>Main market</td>
<td>OA</td>
<td>FA, Medical</td>
<td>Logistics</td>
<td>All industries</td>
</tr>
<tr>
<td>Standard</td>
<td>AIMI ISO</td>
<td>AIMI ISO</td>
<td>AIMI ISO</td>
<td>AIMI ISO JIS</td>
</tr>
</tbody>
</table>

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Proposed QR CODE LOCATION

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### Quantitative Assessment of Points

<table>
<thead>
<tr>
<th>Town</th>
<th>Point</th>
<th>Known position on the ground (Google Image)</th>
<th>Position on Google image based on CP coordinate</th>
<th>Different in Degree</th>
<th>Error (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lat</td>
<td>Long</td>
<td>Lat</td>
<td>Long</td>
</tr>
<tr>
<td>Shah Alam</td>
<td>A</td>
<td>3.06716</td>
<td>101.50435</td>
<td>3.067108</td>
<td>101.504361</td>
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<tr>
<td>Shah Alam</td>
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<td>3.066636</td>
<td>101.505429</td>
<td>3.066599</td>
<td>101.505441</td>
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<tr>
<td>Kuala Lumpur</td>
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<td>101.693937</td>
<td>3.149538</td>
<td>101.693374</td>
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<tr>
<td>Kelantan</td>
<td>D</td>
<td>6.116489</td>
<td>102.230146</td>
<td>6.116456</td>
<td>102.23015</td>
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<tr>
<td>Terengganu</td>
<td>E</td>
<td>4.704944</td>
<td>103.443278</td>
<td>4.704911</td>
<td>103.443301</td>
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<tr>
<td>Johor</td>
<td>F</td>
<td>2.487547</td>
<td>102.729469</td>
<td>2.487485</td>
<td>102.729482</td>
</tr>
</tbody>
</table>
RESULT:

Adaptation of the QR Code technology in Malaysia’s Land Ownership Title:

Contact info
Reservations
Directions

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RESULT:

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.
ACKNOWLEDGEMENT

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

DSMM: Department of Survey & Mapping Malaysia

CGT (Center for Geospatial Technology), UiTM Shah Alam