

ASTRI's Mission One of the R&D Centres under the Innovation • and Technology Commission, focus on developing information and communication technologies Collaborate with the Hong Kong Education Bureau to support local schools in its e-Learning pilot program Offer client and server solutions in e-Learning to • schools and commercial partners in the education sector

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ASTRI'S Mobile Learning Solutions Sensor-based mobile learning Mobile collaborative learning Learning Management System to support mobile learning lesson plans

Sensor-based Mobile Learning	
Object identification on a mobile device:	
 sensor captures an object's digital ID 	
 map the ID to the object's information information can be in the form of: 	
+ an UBL that leads to a web page.	
+ pre-loaded information on the object	
Proximity sensor:	
 NFC for object identification: 	
 low-cost, passive RFID tags are attached to various objects 	
Offers a more natural friendly user experience	
Image sensor:	
 – QR-code for object identification 	
 mobile device's camera capture the QR-code and translate it into an URL 	
Location sensor:	
 GPS for location identification 	
 mobile device will map the location to information about the location 	
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Mobile Learning Through QR-Code



- QR-code attached to object of interest outside of classroom
- Capture the QR-code with e-Learning tablet's camera
- Software decodes the QR-code into a relevant URL or index
- Information about the object will pop up on the device











Mobile Learning Through RFID

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- RFID tags attached to objects of interest outside of classroom
 Device taps on the tag
- Device taps on the tag of an object
- Tag ID is mapped to information of the object, which pops up on the device

ASTRI

Hobile e-Learning Device — Personal Assistant For e-Learning

- Android-based 10" tablet device, touch panel, HD display
 Design for e-Beading (4:3, 1024 x)
- Design for e-Reading (4:3, 1024 x 768 resolution, wide-angle display)
- back and front camera
- 3G and WiFi network access
 Location related components: GPS and digital compass
- Hand-writing, audio/video recording, etc.
- Integrated with ASTRI's Learning Management System

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