

powering imagination

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When it comes to  
human imagination,  
there are simply no limits.

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# Making your voice heard

When you use the cellphone to speak to someone while driving, the person at the other end inevitably hears more of the peripheral noise from the road, than what you urgently want to convey.

AT HCLT, we are working on a solution that will raise the share of the subscriber's voice over the foreseeable future.

We mean literally.

HCLT has developed an algorithm-centric technology

solution for telecom equipment manufacturers, an IP which will make it possible for automobiles to be fitted with a hands-free wireless phone in the future. This will not only enable those driving automobiles to speak on the phone without taking their hands off the wheel, but also eliminate ambient sound through the creation of an opposing sound field. Thus delivering crystal clear sound even while driving at 90 kms per hour!



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# Moving the stocks off the shelves



Maximizing footfalls in non-peak hours is every marketing manager's challenge.

At HCLT, we have designed solutions to help retail companies improve customer flow and achieve a more equitable distribution and profitable utilization of retail time and space.

One of HCLT's retail solutions identifies offtake imbalances and enables real-time implementation of pricing options - higher prices in peak hours and lower in lean hours - to attract more consumers and distribute them, to ensure enhanced levels of service.

A comprehensive retail management system which ingeniously deploys electronic shelf labels and hand-held remote controlled devices, has also been developed. Around the electronic shelf-labels was built a market proven, scalable and reliable architecture. As soon as store managers detect a weak consumer offtake, they can instantaneously alter prices or offer schemes, using their remote-controlled hand-held devices.

The system helps in streamlining inventory (avoid stock-outs/overstocks), in-store inventory valuations and replenishments as well.

Other retail solutions include Loyalty Management to track customer buying habits in order to design better promotions; Shelf Management solutions that enable better management of shelf space for improved customer service, as well as integrated solutions to help put the right Merchandise mix on the shelves, by keeping track of demand and supply.

Thanks to these solutions, HCLT is helping retail giants across the world add precious basis points to their margins and strengthen their competitiveness.





When you are touching 90 kms per hour on a highway, nothing shakes the system - yours and the car's - worse than the wheel passing over a pothole.

Exposed to the natural elements as well as the incessant pounding of heavy vehicles every single day and night throughout the year, road conditions deteriorate over time. Maintaining them in an optimal condition, especially across large tracts of land, can challenge the best of infrastructure.

HCLT has designed a unique solution that protects the health of the road, the car and your body. For a large Australian customer managing road infrastructure, which includes the building and maintenance of 22,000 kms of arterial roads and over 4,000 bridges and major culverts, HCLT has developed a fully integrated Road Asset System (RAS) with web interface and GIS (Geographical Interface System) functionality. A fully integrated browser based intranet application, the RAS has interoperability features and the capability of providing a graphical, map-based method of examining and viewing road information.

Maintenance teams across the country can thus quickly identify sites that need attention and repair and initiate preventive action proactively.

As a result of HCLT's solution, customers Down Under can enjoy a smooth ride - in more senses than one.

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# Taking the stops out of your journey



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# Taking the long-strain out of distance air-travel

Think of a long air haul and you think of strained backs and aching muscles.

Worse, you can think of some insipid canned music and films that you couldn't be bothered to watch.

No longer. Thanks to HCLT's inflight entertainment system software and hardware solutions, developed for leading InFlight Entertainment system providers. Allowing travellers access to a choice of features including Audio Video on demand, internet and email options. As well as Data and Voice communications, leveraging the latest technology trends in embedded, networking, Digital Media content management, telephony and communication technologies. An array interesting enough indeed, to take the boredom out of air travel.

Besides, HCLT is working in the flight safety and mission critical areas related to Air Borne, Air Traffic Management and Ground based Systems. An in-house developed framework that conforms to the most stringent and exacting safety requirements and standards, has ensured consistent delivery of flight safety critical system development services .

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# Making your ATM account absolutely secure.

A number of users are paranoid about carrying their ATM card for fear that, if pilfered or misplaced, it could be misused to siphon precious savings.

At HCLT, we have developed an eye for such problems. Quite literally. The company is presently working on solutions that leverage biometric technologies to reduce incidences of ATM fraud. These solutions include deployment of retina recognition and finger printing technologies. By incorporating these distinctive features of account holders, all that an ATM card holder will have to do in the future, is stare into a 'retina detector', which would match his retina characteristics with a captive record and, on immediate confirmation, disburse the cash.

HCLT is also working currently with a world technology leader to evolve the ATM from a single-function service into a multi-functional support facility. As a result, the new generation ATMs will be able to provide innovative additional functions to card holders. Including paying utility bills, dispensing stamps, printing and updating passbooks, rendering assistance in purchasing film tickets and booking airline tickets, among other functions.

Thanks to these solutions, the term 'friend round the corner' has acquired a new dimension.



# Making pain more bearable



A number of illnesses, when treated in the conventional way, can be lingering, making life unbearable for both the patient and those around him.

At HCLT, we have leveraged our IT skills to develop advanced solutions, that help administer therapies conveniently. Take a pain in the back, for instance. Conventionally, in ailments related to the backbone and the spinal cord, while medicines are required to be injected into the body at intervals, frequent injections are not advised.

A leading Fortune 500 group's medical electronics division is using HCLT's embedded technology services for developing advanced hardware and associated software for implantable devices. The system incorporates an ultra low power design and radio-control, with electronics activated only when the device needs to work. The device will potentially ensure that chronic pain or similar ailments can be controlled or treated almost painlessly, without medicines having to be injected into the body at frequent intervals.

Thus alleviating suffering in more ways than one!

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# Protecting your

# business secrets

In a world where business is getting increasingly competitive, there is a growing market for espionage and security breaches are the nightmare of most companies.

At HCLT, we have developed a customized PKI software toolkit, which is the core security Engine, for a leading provider of communications technology in the Internet messaging market space. Our customer provides integrated messaging services including e-mail, secure file storage / delivery and wireless messaging. This core security Engine, which gets integrated with the customer's next generation messaging service, provides the features of Digital Signing and Encryption, using smart cards, to facilitate secure communication.

Based on a modular extensible architecture the toolkit can also support future requirements and is upgradeable. Thanks to this secure technology, HCLT's customers' customers can enjoy complete peace of mind.

