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## THE ECONOMIC TIMES

T'S FINALLY focus India for IT behemoths. Infotech companies have now started re-searching on technologies and products specific to the Indian market. At research labs cinc to the Indian market. At research labs across the country, Indians are creating tech-nologies specifically designed for the nation's multilingual masses. In the process, the country is also fast emerging as a research bub for tech-nologies geared for the Third World.

Multiplicity of languages, cultural diversity, low literacy rates, price sensitivity and low usage of PCs are all challenges for the information technology industry, factors that make digital divide a reality. Although India has successfully managed to carve out a niche in the global soft-ware services market, domestic consumption of IT products and services remains abysmally low

If products and services remains abysmally low-still. Microsoft, Hewlert-Packard and IBM are some of the global giants carrying out pioneer-ing work in creating India-specific tech. 'Our basic premise is that we are developing technologies for emerging markets like India, China and Russia, where people have not had access to technologies. There are basically three barriers stopping IT from becoming accessible to the common man: economy (it is not affordthe common man: economy (it is not affordable), language (there are more than 16 languages spoken in India) and infrastructure, where India is ill-equipped," says HP Labs Director Ajay Gupta.

HP recently launched Scriptmail, a device



that makes electronic communication easier for people who speak languages that can't be typed on a keyboard. This device totally eliminates the on a keyboard. Insuevice totaly eliminates in keyboard, an impediment in India where there are so many official languages and many other dialects. The company is carrying out field trials for this device and is in advanced discussion with OEMs for manufacturing. How to cross the language barrier is Mi-

Technology now is for Indians. More And More IT Biggies Are Creating Software Aimed At The Masses, Breaking The Price, Accessibility And Language Barriers. Gagandeep Kaur explores

## **Driving IT,** The India Way

crosoft's concern too, whose research lab is also based out of Bangalore.
The company is working on Textless User Interface where mobile technology will be used. "There is a large liliterate population in India and visual language would be just right for them. We plan to use the ubiquity of cellphone and wireless infrastructure to address their needs," managing director of Microsoft Research India, P Anandan, said.

IBM's India Research Laboratory (IRL) - lo-

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cated at the Indian Institute of Technology, New Delhi - is also working on speech recognition software that aims to 'provide an easy interface with computers for those unfamiliar with comwith computers for those unanimar with computers and/or English', the company's website says. IRL is extending the IBM ViaVoice recognition technology to build a speech recognition system for the Hindi language. Like HPS Script-Mail, this will also eliminate the keyboard.

While language is one barrier stopping the adoption of technology by the masses, the other major issue is the low PC penetration. But com-

panies are working on technologies where knowledge dissemination might be possible even without the availability of required infra-structure.

HP has a project called Educenter that will use the existing communication broadcast infra-structure to disseminate content. "We are work-ing on how to distribute content using the exist-ing communication broadcast network to libraries. We are targeting colleges and state institutions. For instance, farmers might go to some institute where they can receive a body of knowledge. This is also at field trial stage, "Gup-

ta said.

The company is also working on a technology where bills can be paid through the cell-phone infrastructure. This technology can also be used for the delivery of micro-finance. In this respect, we are in a position to leapfrog technology since penetration of mobiles is quite high." Gupta said.

Microsoft too is looking at developing technology is not be properly too the properly who is not provided to the properly who is not provided to the properly who is not provided to the provi

Microsoft too is looking at developing tech for example, sensor networks) for people who have not had any contact with technology. "We are working on sensor networks in collabora-tion with III, Mumbai and will be used for land-slide detection. This technology would be espe-cially relevant considering the landslides during the Mumbai floods," Anandan said. He, howev-er, refused to tell us by when these technologies are likely to see the light of the day.

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