

Computer And The Third World -Robert Charbonneau

as many people as possible to learn how to use computers. In the developing countries however more basic questions are being aked How precisely is the computer challenge to be met? How is the computer to be used and in what context? Is the technology to be adapted to the deers or must one simply take it for granted that the computer brings with it a dose

of cultiral colonialism? There are those who believe that the Third World can bypass influstrialization and lean ahead of the West by committed. ing itself wholly to the world of high-tech information Others' however point out that computerization in the 1 countries of the Third __ World has no

West the idea is simply to get i market for the multinationals for their own learning.

that control data systems. In Senegal, in West Africa tries to develop the child's cathe ministries of Scientific and Technical Research and of National Education have paid particular attention to the work of professor Seymor Papert at the Massachusetts Institute of Technology in Boston Up until the end of 1982 Papert was director of the World Centre for Information Systems and Human Resources. in Parls, an organization supported by the French govern-

ment. Professor for having developed a computer language that is ground ed in one of the principles of tween 7 and 11 from different the great Swiss psychologist, social classes.

the nother goal than to enlarge the that children are responsible

The language, called Logopacity for self-learning

" Papert is convinced that any young child can learn a languspontaneously than any other subject thereafter "Learning without instruction is possible" , he asserts.

In March 1982 a group of trainees made up of a computer expert, a professor of ma thematics an educational psy chologist a sociologist and two teachers at Dakar's Normal Papert is known. School decided to experiment with different ways of teaching data processing to children be

Piaget This principle is simply ... The Logo language allows the

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child to call up on the screen an abstract form of a turtle and to coatrol it at will depending on the instructions given him. Then _ as he learns more, he fills the turtle's environment with geometric forms age more rapidly and moir representing a square a sun and other elements made up from simple forms The child's learning becomes dynamic. It is not the computer that is programmed for the child rather it is the child who discovers the machine's language rand programme.

The first results indicate that children from a more privileged background learn more quickly at first But children backfrom underprivileged grounds, and even very poor backgrounds eventually close

See page 6

THE BANGLADESH OBSERVE hird World

(From Page 5)

the gap. At the Ministry of Scientific and Technical Research the compile all the children's accomplishments and the necessarv knowledge involved A second study; is analysing how learning takes place and is utilized by children in the same age group, and in different age groups. In the end it will mean proposing different learn ing methods to the legislators.

French! thinker Jean-Jacques Servan-Schreiber in 'Le defl mondial' [The World Challenge] published in 1981' argues that the computer will revolution alize communications in the countries of the Third World. The computer because of its flexibility its immediate recall; and its simplicity is believed capable of profoundly modifying ways of thinking

"Those who will have learned the thought structure of Lo go will be able to meet and find solutions to the problems they have in common " says Schrei ber Farmers in the Third World, for instance could keep data on their food stocks and thus better manage their resources.

Schreiber goes further. He ascerts that the very fact of caperimenting with a computer means a more flxible attitude that could result in Third World farmers bridging the gap between modern agricultural know ledge and their traditions

The next step would be natur al for Schreiber, Communities by satellites could be link and share the knowledge over great distances. There is already research underway to develop compact and reliable micro computers for use in the remotest corners of the world, Not everyone agrees with

Schreiber , Some see his computer advoca cy as naive and riddled with underlying economic interests which barely disguise a desire to perpetuate colonial relations. For the moment computer technology is not yet accessible Illiteracy remains a serious obstacle when the keyboard con-Research trols the computer now underway in schools indicates that the computer just writing, have as speech land strong cultural connotations. And the translation of software. packages is only a partial solu tion to the problem of computer use in developing coun-

tries. Whatever the outcome Third World governments such as Senegal's are resolutely invol ved in current research. It re mains to be seen if the use made of this advanced technology will really help the development of the people of the Third Woulds Papert himself admits that computer technology is not the solution to all

ills This technology can create small enclaves where development will be so rapid that it will necessarily take place at the expense of everything else around" says. Papert "The result in these countries could be an even greater disparity

among social classes As anything new, the Logo language has met with and continues to meet doubt. On the one hand its implementation profoundly modifies the role of

the teacher On the other there is concern that the child is not suffictently taken into consideration in these experiments. The teachers believe that it would be preferable to set precise goals for the project, to involve diflerent government ministries if necessary and to set up a module to provide guidance And then such experiments should not impose a financial burden on an already costry

educational system This could be the determining factor in the end even if the price of computers continues to fall

The Government of Senegal working group has set out to it is convinced that the computer will become an integral part of the school system whether one likes it or not, now or la ter" And so there is a com mitment not to miss out on the computer revolution And as an added means of ensuring this the government has just had Wolof, one of the six nathe computer

Many observers postulate that the computer will mean closer links among the different cultural groups in the world, But not Papert He is convinced that alternative cultures will result from the use of the computer Minority groups. Women poets and so on will claim the -micro computer for the defence of their own interests and cul-1 tures Only the future will tell what impact the computer age will really have on the develop? ment of the Third World But, tional languages translated for whatever it is it will be profound (IDRC Feature).