Access to home PCs is impacting on the next generation's success. AMY KELLEY looks at the consequences of the 'digital divide'.

When the bell signals the end of the school day, 12-year-old Epiphany Poluleuligaga slings her satchel over her shoulder and heads pay off. for the gate. Some of her young schoolmates are gathered in the yard, chatting \$50,000 about X-Box games and huddling over absolutely have an mobile phones. Epiphany tries to forget expectation of computerher parents words — she won't have a savviness in candidates," mobile until she is old enough to purchase says Fleur Board, chief her own.

She greets her mother Maria and three recruitment company younger siblings before climbing into the Adecco. family van. Together they make the daily journey to their local library to do the level of keyboard skills. kids' homework.

It's not compulsory at Epiphany's touch-type at school' days school to type homework on a computer, are well gone and no one but she's been around long enough to types at only 30 to 40 know the teachers are more impressed when the students do. She assesses the queue of people waiting to use computers. skills, familiarity with the It may take an hour before she can even Microsoft suite and set her hands down on a keyboard.

While library computer resources in puter navigational skills, more affluent parts of town might only be at the very least." used sporadically, the machines at Clevedon Library are in constant demand for the technology-starved, from people who cannot afford one of but not having computer skills their own.

he Poluleuligagas are one of at least ing to University of Victoria 100.000 Kiwi families in this situa- researcher Dr Ann Weatherall, L tion. After meeting bill payments, this excludes those on the margrocery shopping, ever-increasing petrol gins of society even more. costs and other family necessities, there just isn't enough left over at the end of the week to invest in computers.

Epiphany's father Sanele preaches the process a document, you'll be value of technology. As a social worker for able to access and store informa-South Auckland's Family Start, he is con- tion digitally, and so on. If you stantly advising the young families he don't, you become marginalised. works with to make owning a computer It's as simple as that." one of their personal goals. But at the end of the school day his own children are still in the library, waiting in line.

Sanele is worried Epiphany, 12, Maria, and Family Life, featuring per-9, Joseph,5, and Joan, 2, have computer spectives from a panel of technolskills far behind those of other children ogy experts. The academics, con-

"You hear about some kids spending and researchers together confirm all day in front of a computer, and not the worst fear of the technologicalusing it for homework but for games and ly-poor: That we're living in an things. We don't want it to be like that," he says.

"We value our quality time together. keep up will suffer. But it would be useful to have one just to be able to do the basic things.

returning home from school with i-Pods Household income is the single in their ears head straight for the computer. At the same time as dexterously many computers a household owns manoeuvering their way through a 3D and whether it will be one of the 65 per cyber world, they begin texting friends cent that are connected to the internet. with their social plans for the weekend. They speak in byte-sized SMS language location, level of education, employment and their fingers, nimble from years of situation and number of children in a of the scale. flicking joysticks, are adept at jabbing in family also determine how much technolthe letters while their eyes are still glued ogy they own," says Weatherall. to the PC screen.

kids poised to be the most successful of cated, unemployed, or disabled are the their generation. A recent study conduct- least likely to own a computer. Those lived by the British Educational ing in rural areas are close behind, partic-Communications and Technology Agency ularly in the West Coast and Gisborne (BECTA) confirms what we already sus- regions. Just one quarter of homes in pect to be true: that students with a PC at these areas are connected to the internet, home do better at school.

better marks, particularly in maths and Auckland and Wellington.

computer saves time with homework. boosts the "fun factor" of research and allows for neater presentation of work; giving these kids an edge over the rest

And the child who does well at school has a high chance of continuing to do well at high school, at university,

"Jobs with a salary of or more executive of New Zealand

"They want a high The traditional 'learn to words per minute now. "They want data entry

Explorer, and general com-

It's a terrifying thought

is the modern equivalent of not being able to read. And accord-

"These days it's automatically considered that you'll have an email address, you'll be able to

Weatherall has just released a report titled New Communications Technologies their age. He fears they are missing out. sultants, government advisers increasingly digital, mediated society, and those who can't afford to

There's a clear correlation between the digital divide and New Meanwhile, children in leafier suburbs Zealand's socio-economic divide. greatest factor in determinin

"But it seems that factors like age,

Along with low-income families, sole According to experts, these are the parents, elderly couples and the unedu-BECTA found they not only achieve of 44 per cent shared by net-friendly

levels of confidence and motivation. A Asian families are more likely to have takeovers and the attention-consuming better."

POLULEULIGAGAS: Maria, Joseph, Joan Anne, Epiphany, Elizabeth, Maria Telesia and Sanele.

Vorlds INALT.

computer and internet access than families of any other ethnicity, while Maori and Pacific Islanders lie at the other end

Never before has technology had so much power in distinguishing the haves from the have-nots. It's the social divide of the new millennium, and it's downright digital. The more information communications technology (ICT) we have, the better. Any electronic or digital equipment allowing us to gather information or communicate with each other is a means of self-empowerment — from computers, which is well behind the connection rate the internet, mobile phones and PDAs to digital cameras, video conferencing net- of what trade they go into, they're going works and even mp3 players. The English, but their teachers report higher Ethnicity is also a determining factor: machines once feared as workforce "And the sooner we get them onto it, the

devices blamed for the demise of social interaction have become integral to maintaining our roles in the workplace and community.

hile parents who grew up with little more than a television struggle with the concept of a computer-led society, others are embracing it. Patrick van Rinsvelt, a technical director at APN Digital, and wife Andrea, a web developer, are aware ICT is the way of the future. They want their two children to be prepared.

"When these kids grow up, regardless to need to use a computer," says Patrick.



VAN RINSVELTS: Patrick, Piper, Andrea and Jacques.

the **digita** divide

to use the internet, and picked it up one very swollen hard drive. "amazingly fast".

"Without being able to read, she she was capably navigating her way around," says Andrea.

It's a thought many parents would find downright scary. But the van birthday gifts online. Rinsvelts are no strangers to technology. do things, we can just jump on the internet," says Patrick.

their screens rather than in the paper, ties.

Four-year-old Piper has a desktop handle financial transactions over the computer of her own and is an expert net instead of queuing at the bank, and user of the machine. She was just two store all of their music, home videos and when her parents began teaching her 10,000 photos of the kids growing up on

When they want to chat to Patrick's family in the United States, they'll conrecognised what the buttons and pop-up nect their phone to one of four home comboxes meant. Within about two weeks puters and use a downloadable programme called Skype to make the call for free. Andrea, who hates shopping, manages to order everything from groceries to

The gadgets allowing them to do all of "We don't have to go out in the car to this haven't come cheap. But the van family. They have simply decided to They'll read daily news headlines on make technology one of their top priori-

est car or anything," says Patrick. "It's tus symbols. just not something we require. Whereas these devices actually help us manage our day more easily."

But they are more than just mod cons. They are tickets of entry into a burgeoning communications era.

to have a voice and they'll be listened to. With the blogosphere and citizen journalism on the net, it's going to revolutionise how we talk to each other. And we want to be ready for that."

Dut not all families will be ready, Band a lot of people are worried. In May last year, the Government launched its post-election Digital Strategy, which aims to bring New younger people. Zealand up to leading international standards of information and technology use.

A total of \$7 million was recently allocated to 57 ICT initiatives around the country. And just over \$1.2 million of that money is going straight into homes. via the Computers in Homes programme that supply machines to Computers in installing second-hand technology in low- Homes. income households.

Laurence Zwipfer, a trustee of the 2020 Communications Trust which initiated Computers in Homes.

"What we are addressing is a critical issue. It's all about that fundamental of wanting to give all kids decent opportunities. Technology is just part of that group of core necessities

like food, shelter and education. "We don't debate whether every

kid needs those things. It's an essential, not an optional thing anymore.' Computers in Homes provides fam-

ilies with children in decile one to three schools with a home PC, Internet connection and 20 hours of computer training.

According to CIH national coordinator Di Das, it was inspired by the success of the Books in Homes project initiated by author Alan Duff.

Das is sceptical of overseas schemes where machines have been provided en masse to the poor without any explanation of why they are important or how to use them. Computer and internet kiosks installed in India's public centres, for example, have mainly been used for playing games because people don't know how to use the more complex programs.

A 1997 \$37 million purchase of internet-ready PCs for every family in the Irish town of Ennis was also money badly spent: people didn't know how to work the machines and a large number ended up being sold on the black market.

"It's important people actually know what to do with the computer once they receive it," says Das.

"Otherwise it's like not being able to mend a puncture on your pushbike; it just tends to sit there and never get used. It's taking more time to do things this way, but at least it's more sustainable

Since its launch in 2000, Computers in Homes has given computer and internet access to 1000 families across the country. But at least 100,000 families still need help.

Zwipfer says Computers in Homes could reach all of them within the next five years, but a goal of 10 years is more achievable.

"It all comes down to funding, real-

In the meantime, the PC-lacking children falling behind in skills and education may also be suffering a blow to their self-esteem. These gadgets are more than just educational tools and

"We won't go out and buy the fanci- means of being contactable. They're sta-

Dr Steve Matthewman, a sociology lecturer at the University of Auckland, relates it to the early must-have Ford automobiles and pressures to "keep up with the Joneses".

"In a way technology is fashion.We call "Where these kids are going to go is it a practical necessity but it's also about amazing," says Patrick. "They're going making statements about yourself and having the very latest.'

Like every season's designer clothing, technology is outdated almost immediately after it is purchased. Every six months better models hit the shelves.

"Advertising instills that desire to keep getting the newer, cooler stuff so you're never satisfied with what you've got," says Matthewman.

"You can try to resist it, just opt out. But that's hard to do, especially for

* Since speaking to Te Waha Nui, the Poluleuligagas have secured a home computer from Auckland-based The Ark, one of two second-hand computer providers

Its low-cost rental scheme offers fami-This will be money well spent says lies a computer, email and unlimited internet access for \$11 per week, with the most worthy applicants, those with school-aged children and currently without any computer, served first.

the Poluleuligagas eagerly await the machine's delivery.

THE COST OF A LOW TECHNOLOGY LIFESTYLE	
Recycled internet-ready computer: Recycled printer: Corded telephone: Two basic second-hand cellphones: Fotal cost:	\$300 \$100 \$20 \$100 \$500
	φ300

PLUS monthly costs of \$10 for 10 hours prepaid internet use and \$40 for two limited cellphone plans.

..AND A TECHNOLOGY-RICH LIFESTYLE: Three desktop PCs, linked via \$5000 wireless network: minimum Software: \$3000 Portable laptop computer: \$1200 \$1200 PDA: 3G mobile phone: \$600 Digital still camera: \$700 \$1200 Digital video camera: 30GB MP3 player: \$570 Cordless phone twin set: \$160 \$130 Fax machine: Colour printer: \$100

\$200 Scanner: \$14,060 Total cost:

PLUS monthly costs of \$39.95 for broadband internet, \$80 for two standard cellphone plans and \$39 for a GPS data plan.