Downwind, Downriver, & Downtime:
The Environmental & Social Consequences of Mining,
& The Wonderful Stuff We Get From It

— Gray Brechin
Founding Myths
The California Gold Rush, 1849: An international sensation!
Yipes Strikes Rich Vein of VC Funding

By Peter Simon

Coastside Senior Writer

Yipes Communications Inc. was one of the big recipients of venture capital dollars in the past quarter. The San Francisco startup that seeks to eliminate the so-called bandwidth bottleneck between high-speed corporate networks and transcontinental fiber-optic networks raised $77 million on March 8.

The year-old company took Internet technology developed for local-area networks and found a way to send the signals through glass fiber at similar high-speed over 40-miles miles. Yipes leased access to glass fiber: rings to corporate customers in a growing number of cities and lets them order the services they need in long-shot increments all the way to 1-gigabit (1 billion bits per second).

"Businesses are demanding faster, simpler, and more scalable networking services," said Yipes Chief Executive Officer Jerry Patrick. "We are offering bandwidth on demand."

Rather than having to order T1 (1.5 megabits per second), DS-3 (45 Mbps) or other fixed-capacity lines.

INSIDE

- **Grow a Business**: Remodeler Justin Thompson shows how entrepreneurs can avoid the main market and succeed in the process.
- **HPQ Calendar**: Companies focusing on seeing communications plus offerings.
- **Small Talk**: The Small Business Administration's Web site offers a Small Business Startups Kits.

Number of companies that received venture capital

<table>
<thead>
<tr>
<th></th>
<th>Bay Area</th>
<th>United States</th>
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<tbody>
<tr>
<td>2000</td>
<td>342</td>
<td>1,061</td>
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Source: VentureOne

*STORY* Page 10 Col. 1

ECONOMY Page 10 Col. 1
The Gold Rush Spirit Lives On in California

A THREE-YEAR-LONG celebration of California's Gold Rush and its heritage kicked off this weekend in Coloma, where 150 years ago, on Jan. 24, 1848, John Marshall stooped to pick up a few bits of yellow gravel from a ditch and changed American history forever.

"Gold, boys, gold," he exulted after finding the pea-sized nuggets while building a sawmill on the south fork of the American River. "By God, I believe I've found a gold mine."

He did and his discovery set off the largest American migration in history and practically overnight transformed California from a gold hunter on the edge of the continent to El Dorado, a land of unbridled wealth and unattained promise.

Drawn by gold, visions of easy riches and adventure -- the original California Dream -- Forty-niners descended on the Mother Lode from all over America and every corner of the globe during the 1849-1855 Gold Rush.

But the reality of the gold rush was harsh, brutal, cruel, pitiful and unmeritorious. Murder, violence and theft were rampant. The death penalty was used for theft of mere...
The reality, for labor, is somewhat different.....
......as well as for the environment.
Iron Mountain — a study in perpetual pollution

Abandoned copper mine spews an endless flow of toxic water

By Jane Kay

KESWICK, Shasta County — Hidden in the southeastern outskirts of the town is the once-thriving Pressley Mine. Now it’s a site of environmental concern as the abandoned mine operations continue to leach toxic substances into the water supply.
Empires are built upon mining
Downwind
Quicksilver: a pretty mess
Almaden park cleanup poses costly problem

Park cleanup will cost millions

Mercury contamination

Leftovers from mercury processing at old mines in Almaden Quicksilver County Park are suspected of tainting the sediment at nearby Coeats Reservoir. Guadalupe Reservoir, Alumina Creek, Guadalupe Creek and downstream in the Guadalupe River. Officials say fish from those waters are contaminated.
CAUTION
HAZARDOUS SUBSTANCE AREA
AUTHORIZED PERSONNEL ONLY

CUIDADO
MATERIAL PELIGROSO
NO SE PERMITEN VISITAS SIN PERMISO
Village tarnished by touch of gold

Company's plan to use dynamite and cyanide to collect the precious metal has Turkish residents living in fear of ecological catastrophe.
Pits of Hope, Despair Amid the Gold

Wildcat miners stake out patches of Indonesian jungle

Wildcat mining on the island of Buru is difficult, hazardous, lonely in the environment and — worst of all — work here is poverty — not very lucrative.

Some men never earned much money for his wife and four children, said [name],

have been a gigantic fraud, with core samples scattered with the kind of other
at gold dust that in front along the Ruk kur

Other large mines are more successful, making Indonesia one of the world’s leading gold exporters.

"The government could drive them away," said Harry Butkwa, the direc
tor of the Forestry Department in Central Kalimantan, in the Indonesian part of the island of Buru. "But if you stop this activity, you would have to find them at something else."
Forced technology
Bonanza!
THE LAWSUIT

We haven't the slightest doubt that there is a fourth party, amount of plantain to make the boy, which drops. Repeating and you wi...
PACIFIC CONSTRUCTION COMPANY,
STREET RAILWAYS, BRIDGES,
AND
STREET CABLE RAILROADS.

J. M. THOMPSON, President
W. O. BROWN, Superintendent

J. M. THOMPSON, Special Agent
A. B. HALLIDEE, Patentee

ELEVATED ENDLESS WIRE ROPEWAY
For transportation of ore, wood, lumber, and other bulky or heavy materials in mountainous country.

No. 43 FREMONT STREET, SAN FRANCISCO, CAL.
JAMES HENRY GREATHEAD
1844-1896

J.H. GREATHEAD
CHIEF ENGINEER
CITY AND SOUTH LONDON RAILWAY

INVENTOR OF THE TRAVELLING SHIELD
THAT MADE POSSIBLE THE CUTTING
OF THE TUNNELS OF LONDON'S
DEEP LEVEL TUBE SYSTEM
Mining fortunes move (far) away from the mines
Chronicle Sold to Hearst

Examiner goes on sales block

Clinton Fires First Volley In War Over Tax Cut Bill
He calls GOP measure a threat to prosperity

An Independent Voice For the Western U.S.

The Chronicle has restored its voices and view.

San Francisco Chronicle
The Hearst Corporation
Magazines
Newspapers
Broadcasting
Entertainment & Syndication
Interactive Media
Business Media
To the freemen who died in the war with Spain that others might be free.

MDCCCLXXXVIII
MCMXII
Mining, water, energy.......& real estate
B. A SIERRA CANYON CLOGGED BY MINING DÉBRIS.

The surface of the débris constitutes a broad plain that is covered by water only when the stream is in flood. The low-water channels traverse this plain. The photograph was made in 1908. At that time most of the canyon deposits had been removed. (See PL VII, A.) This one is the head of a piedmont deposit. (See pp. 28, 52.)

CHANGE OF CONDITION CAUSED BY MINING DÉBRIS.
Sawyer Decision (sort of) Stops Hydraulicking
(in Sacramento Valley)
January 7, 1884
When environmental regulations are imposed, mining moves offshore.
Commerce follows the flag, but the flag follows the pick.
UNDER GUARD AT JOHANNESBURG
RHODES AND JAMESON ON THE GARDEN PORCH AT GROOTE SCHUUR
Oil mining & war
Millions of Years Before the First Man Appeared, Everything That He Could Need Was Stored Up For Him in the Beautiful Planet Devoted to His Use.
A dissenting voice:
Alexander Del Mar