Review of Technology & Economic Development

The Newsletter of Technopolis Times
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Need-to-know *news and resources for economic development with an* ***exclusive focus*** *on* ***technology-driven industries*** *in* ***metro regions*** *and* ***citi-states***.

NEW AT TECHNOPOLIS TIMES

We've moved our operations to San Diego.

We enjoyed living, working, and learning in Europe. Now family matters have brought us back to the US. Moves are so disrupting! We don't want to lose touch with you, though, so here is a hasty edition of *Review of Technology & Economic Development.* Thanks to Alliant International University for their help in distributing this issue.

Looking for funding for RTED.

After four years, it's time to put this newsletter on a firmer financial and editorial basis. We'd like to be adopted by a professional association, a journal publisher, or a foundation that will support expanded and more frequent editions with a spiffier appearance. Send email to tt@generalinformatics.com if you're in a position to help!

The Technopolis Columns *is now in print*.

Communities around the world are trying to duplicate the Silicon Valley phenomenon. ***Social Culture and High Tech Economic Development: The Technopolis Columns*** highlights the pitfalls and suggests methods by which a sustainable, distinctive and prosperous technology-based regional economy can thrive.

Palgrave-Macmillan has published this new book by the editor of this newsletter. *The Technopolis Columns* is priced at about £55 (US$85 at Amazon.com), and there is a **50% discount** for orders placed at economic development conferences. Drop me an email at **tt@generalinformatics.com** if you wish to be informed about these conferences, or if you're hosting one! I'm also available to speak at your event.

Order the book directly from the publisher, at https://www.palgrave.com/products/Catalogue.aspx?is=1403999511 , or at Amazon.com, http://www.amazon.com/gp/product/1403999511/ref=sr_11_1/102-6371579-3320129?%5Fencoding=UTF8 .

The next book is a novel.

For years I've been threatening to write a novel based on some of the unusual entrepreneurs I've worked with. As of today, fifteen thousand words are on paper. If you know a good publisher of detective-genre fiction, send him (or her) my way: fp@generalinformatics.com.

REPORTS

Alex Iams and Pearl Kaplan, Eds., Economic Development and Smart Growth: 8 Case Studies on the Connections Between Smart Growth Development and Jobs, Wealth, and Quality of Life in Communities. August 2006. International Economic Development Council. www.iedconline.org

Asia Technology Information Program (ATIP) tracks and reports on technology trends and developments throughout Asia.

- o ATIP Reports™ of about 15 pages are written by an ATIP analyst on a specific topic or event, and includes significant analysis and comparative assessment. We produce at least 50 ATIP Reports annually. Reports span a very broad range of both technology topics and geographic coverage. Reports are available by subscription. A subscription includes a password to the ATIP web site where current and more than 1,300 back reports are archived. New ATIP reports cost $500 for the first year after publication. Annual subscribers receive all reports published during the year.

- o ATIP Digests™ Each Digest issue (~10 pages) contains a collection of short timely articles selected by ATIP analysts as being particularly relevant to the Digest subject. Analysis is included. Most of our Digests appear monthly and are a great way to keep up with rapidly changing Asian developments on a specific topic. Each individual Digest is available by subscription. A subscription costs US$250 annually per Digest.

CONFERENCES & MEETINGS

IC^2 Institute Conference Explores Technology Commercialization

Investors, industry leaders, researchers, and entrepreneurs converged on Austin **Oct. 12, 2006**, as the fourth annual UT Austin conference on technology commercialization featured inventor presentations, discussions of industry trends, and expert advice on how to deliver university-based technology to the world marketplace. Keynote speaker Chris Anderson, editor-in-chief of *Wired* and best-selling author of *The Long Tail: Why the Future of Business is Selling Less of More*, disclosed ways to connect people with products in non-traditional ways. Keith Powers, executive vice president for strategic development at the X Prize Foundation, shared the inside story of how the foundation created a private race to space with its $10 million Ansari X Prize. Presentations and panel discussions also featured executives and experts from Corning, Chevron Technology Ventures, Google, IBM, and Microsoft, as well as other companies and venture capital firms.

http://www.utexas.edu/supportut/news_pub/yg_commercialize.html?AddInterest=1286

3rd International Conference on Communities and Technologies, East Lansing, **28-30 June 2007**; Deadline 13 Nov 2006. http://ama-academics.communityzero.com/elmar?go=1369940

4th annual Oregon InnoTech returns on **April 25-26, 2007** to the Oregon Convention Center. InnoTech is the region's premier annual conference and exposition highlighting

Oregon and Southwest Washington's innovation and technology development opportunities.

GTLtec07, world's leading conference on the Gas to Liquids Industry. **January 22 - 23, 2007** Sheraton Doha Hotel & Resort, Doha, Qatar. http://www.gtltec.com

IEDC 2007 Leadership Summit. January 28 - 30, 2007 Rancho Bernardo Inn, San Diego, CA http://www.iedconline.org/LeadershipSummit/index.html

IAMC's Spring 2007 Professional Forum at Amelia Island, Fla., entitled "Corporate Asset Management in a Global Marketplace" happens **March 3-7, 2007**. http://www.iamc.org/links/links.cfm?a=853&c=CL240218

IEDC 2007 Annual Conference: Call for Session Proposals. IEDC is presenting its 2007 Annual Conference in Phoenix, AZ, from **September 16-19.** Make this an opportunity to highlight challenges, success stories, lessons learned, share cutting-edge ideas, and engage your colleagues at the premier educational and networking event for the economic development community. Download the request for session proposals (65 Kb MS Word doc); the deadline for submissions in January 16, 2007.

Upcoming IEDC courses:
• Entrepreneurial & Small Business Development Strategies. January 25-26, 2007, New Orleans
• Real Estate Development & Reuse. February 1-2, 2007, Newport Beach, CA
• Neighborhood Development Strategies. February 15-16, 2007, Baltimore, MD
Read more at http://www.sitenet.com/events/ .

More conferences are listed at http://www.innovation-enterprise.com/conferences/. Free listings are offered at this site by the journal *Innovation: Management, Policy & Practice,* for conferences within the aims and scope of the journal.

ARTICLES OF NOTE
> Michael Sable, The impact of the biotechnology industry on local economic development in the Boston and San Diego metropolitan areas. *Technological Forecasting & Social Change,* Volume 74, Issue 1, January 2007, Pages 36-60.
> Vesa Harmaakorpi and Tuomo Uotila, Building regional visionary capability. Futures research in resource-based regional development. *Technological Forecasting & Social Change,* Volume 73, Issue 7, September 2006, Pages 778-792.
> *Genetic Engineering News* highlights the bioinformatics firms of North Carolina's Research Triangle Park. December, 2006 issue. www.genengnews.com

REGIONS
San Diego
Florida is matching California's $1 billion investment in biotech. California is by far the more populous state. The (predictable) result? Scientists are moving from California to Florida. (See the spring, 2006 issue of this newsletter.) And from California to Singapore and elsewhere in Asia. San Diego, a pioneer in biotech, is still adding jobs at the low end but losing them at the high end. Venture capital has gone scarce for the kinds of biotech start-ups in which San Diego has always been strong. There's hope for San Diego – see Julie Meier Wright's 12/10/06 article in the San Diego *Union-Tribune* – but the town remains dominated by real estate developers (see Singaporean Philip Yeo's quote below about the relative importance of educated people vs. buildings), and if the *Union-Trib* is to be believed (it's a politically conservative, generally anti-government paper), San Diego is governed by the most clownish city council I've seen in decades of studying technopoleis around the globe. IC^2 Institute Senior Fellow Mary Walshok is also here (she's a professor of sociology at UCSD, researching the technology-based economy). Her recent article for the *Union-Trib* supports everything I've told you in my new book *The Technopolis Columns*.

Singapore investing heavily in biotechnology
Singapore is luring top scientists from the US and Europe, according to the San Diego *Union-Tribune* (12/18/06). Last year, the city-state put $45 million into a new research consortium for stem-cell research. The organization will be led by a California scientist who left the US after President Bush restricted US funding for stem cell work. Singapore will push USD 25-29 million into the stem cell arena every year, emphasizing education and research. Philip Yeo, chair of the Singapore Economic Development Board and mastermind of Biopolis, says, "People are the future, not buildings."

Ireland's focus on high tech, low tax attracts the young and ambitious
http://www.twincities.com/mld/twincities/business/technology/14708363.htm
Ireland has been transformed into the land of opportunity and a magnet for knowledge workers from Eastern Europe and around the world. Ireland's "brain gain" is driven by the European operations of Google Inc., Yahoo, eBay and others. "The place is very young and very international," said one Norwegian in-migrant.

Ireland's 12.5 percent corporate tax rate is the lowest in Europe, its per capita GNP is the European Union's highest, and its unemployment is the EU's lowest. English is spoken, American culture is appreciated, and it's an easy gateway to Europe.

Of Google Ireland's 800 employees, 70% are not from Ireland. They speak 37 languages. "The company plans to hire another 600 university-educated, mostly foreign people," according to AP.

A third of the more than 1,000 multinationals located there conduct research and development in Ireland. Ireland offers a 20% tax credit for R&D. "Ireland ranks at the top of the EU's 15 original members in having enterprises with innovation activity, according

to a 2004 Eurostat report."

Portland, Oregon
*This exclusive report just in from Mark Paul, Executive in Residence at the **Open Technology Business Center,** located just outside Portland in Beaverton, OR.*

The Open Technology Business Center, a business accelerator that specializes in growing technology startups, has seen some dramatic changes in the past year. All changes mean a more robust center, more entrepreneurial activity, with a focus on developing even more growing and thriving enterprises. The OTBC has:

Attracted an excellent Executive Director, Steve Morris. He has more than 25 years of management experience in the software, service, and semiconductor test industries at companies such as Hewlett Packard, Cadence Design Systems, Mentor Graphics, and Credence Corporation. He founded Teseda Corporation and served as CEO from 2001 to 2005. He is also the managing Director of OregonStartups.com.

Brought a dozen Ventures-in-Residence: Document Command, HeadWest Software, Home Network News, Infinity Softworks, Insight GRM, Klassic Corp., Lumencor, Rapid Transform, Remote Technologies, TSSI, Validy, and Virtualosity Solutions.

Added eight Entrepreneurs -in-Residence: Dennis Powers (Investor-in-Residence), Dwayne Johnson, Frank Hall, Jason Ray, Rob Gardier (SBDC), Wm Leler, Mart Massey (Technologist-in-Residence), and Mark Paul (Executive-in-Residence). Each EiR has exceptional experiences in bringing products to market and building companies.

The OTBC has developed a series of "lunch and learns", which bring area experts. In the coming weeks, executives from the following investors will share insights with business owners, on how to position the company for investment: Northwest Technology Ventures, Blueprint Ventures, Mt. Hood Equity Partners, Intel Capital, Portland Angel Network, and SmartForest Ventures.

Mark Paul, Managing Director at Synergy Consulting Group, will be presented "Seven Secrets: How to Attract More Customers."

Steve Morris has been instrumental in moving the City of Beaverton's vision forward in very short order, and promises even more growth and development ahead!

TOP OF THE NEWS
Bangalore, India, Changes Its Name. (November 2, 2006 The Egyptian Gazette)
"India's technology hub of Bangalore changed its name to its vernacular origin Bengalooru yesterday in what is seen as a bid to appease locals upset at the influx of outsiders. The name change was announced to mark the 50th anniversary of Karnataka state, of which the city is the capital. However, the change is expected to take about a month to come into effect legally as it needs federal government approval, a senior state official said."

Case Could Change Patent Law (AP, 11/29/06)
We may finally see the "non-obvious" criterion for the granting of a patent enforced more strictly. Hearing oral arguments in KSR International vs. Teleflex Inc., the US Supreme Court "signaled a willingness to make patents harder to obtain." The court focused "on whether an invention is obvious and therefore ineligible for a patent."

Alliance for Regional Stewardship Awarded $1 Million Challenge Grant
Philadelphia, PA, December 5, 2006: The Alliance for Regional Stewardship (ARS) announced it has been awarded a $1 million challenge grant to further its growth and development as the nation,s only public-private organization dedicated to building strong regions. The grant was made by Becky and Jim Morgan of Los Altos Hills, CA. Jim Morgan is Chairman of Applied Materials, Inc., headquartered in Santa Clara, CA. The Morgan family funds will be used to grow the ARS Learning Network, which supports civic activists in their regional work by identifying and teaching best practices. www.regionalstewardship.org

Kerry Pushes to Revive SBA Venture Fund
"Congress created the New Markets Venture Capital program in 2000, but Sen. John Kerry, D-Mass., the ranking Democrat on the Senate small business committee, says the Bush administration has 'starved this program for nearly six years.' With the program set to expire in 2006, Kerry this week introduced a bill to reauthorize it for three years."
http://www.allbusiness.com/news/daily_news.asp?ID=3471485&dailyn=7_20_2006#3471483

JOBS
Professor David Plane has forwarded this opportunity: The University of Arizona's Office of Economic Development is searching for an applied regional economics researcher. The Office of Economic & Policy Analysis seeks a highly qualified and motivated individual to conduct and advance a nationally recognized applied research program in regional economics. Focus areas include regional economic integration, cross border trade and linkages, economic impact analyses, and evaluation of economic development policies. For full details, and to complete on-line application, see job #36797 at http://www.uacareertrack.com/ Please be prepared to attach letter of interest and resume (see additional instructions on posting). Review of applications will begin 12/18/06 & will continue until position is filled. The University of Arizona is an EEO/AA Employer-M/W/D/V.

NEWSLETTERS
To SUBSCRIBE to the SBIR-Alert mailing list (Small Business Innovation Research grants), send an email to lyris@lyris.pnl.gov with the following in the subject line or body of your message (your name is optional):

  subscribe sbir-alert first_name last_name

  example: subscribe sbir-alert joe smith

To receive (or cancel) SBIR/STTR notices via FAX, send a request with your name, company, phone and fax number to (509) 372-4370.

OTHER WEB LINKS
   Global project coverage from Oxford Intelligence.
   http://www.sitenet.com/links/dlinks.cfm?i=595&c=CL240218
   Satellite photos of any place on Earth. http://earth.google.com/
   Portal for angel investors. http://www.angelnews.co.uk/flightplan.asp

AWARDS
Call for nominations, 2007 for the **Peter Nijkamp RSAI Research Encouragement Award for an Early Career Scholar from a Developing Country**. The Award recognizes the outstanding potential of an early career researcher from a nation in the developing world. Eligibility to apply for the Award is restricted to early career researchers, defined as person in full time employment in either a teaching or a research position in a university or research institution in a developing nation in which there is a member section of RSAI (Regional Science Association International). Paper and CV to be sent to the Executive Director of RSAI, Graham Clarke at rsai@leeds.ac.uk. http://blackwell-publishing.msgfocus.com/c/1IGOdhh7NnuZJk5sm

JARGON WATCH
Backwardation: the current slight decline in US housing prices (Profs. Karl Case and Robert Schiller, in *Wall Street Journal* Aug 30, 2006)

Technopolis is now the name of a theme park in Belgium! "Technopolis, where it's fun to experiment! Cycling on a cable five metres above ground? Standing in the middle of a soap bubble? Trying out a bed of nails? Landing an aeroplane on your own? Making your hair stand on end with electricity? You can experience all this in Technopolis, the Flemish 'do centre' for science and technology, where there's always something new to experience." http://www.technopolis.be/eng/?n=6

NEW ACRONYMS
PAIN: The four essential features of a secure e-business transaction – Privacy, Authentication, Integrity, and Non-repudiation. (*IBM Developer News*)

EDITORIAL
   Two contradictory items in December's *EE Times*. A technology executive says, "With Sarbanes-Oxley, who in their right mind would want to sit on a corporate board?" Yet *EE Times'* top stories of the year involved ethical lapses on the part of technology execs.
   If executives are unethical and regulation doesn't fix it, then more radical measures

are called for. I don't know what they are. I invite your input, and will publish selections from your remarks in the next issue of *Review of Technology & Economic Development.*

I continue to enjoy reading *European Innovation* (http://ali.cordis.europa.eu/), despite that this government organ clings to the notion that in our networked world, matters of innovation can still be directed centrally. The November 2006 issue, though, said something eminently sensible: "Building on its review of the copyright acquis, the [European Commission Directorate-General for Enterprise and Industry will] ensure that the legal framework and its application are conducive to the development of new digital products, services, and business models." This is the right approach on two levels. "Making the legal framework conducive" is indeed one of the best functions of a central government. Secondly, the Commission recognizes the importance of creative new business models.

This is a sophisticated understanding that is often lacking elsewhere. Kudos to the Commission.

TECHNOPOLIS INITIATIVES newly added to the Technopolis Times database
    Brunei SME Innovation Center www.bedb.com.bn/sme
    Community development program for **Brunei** technopreneurs www.skali.net
    Technopreneurs Association of **Malaysia** www.team.net.my

Opt in or out: We will keep sending you free quarterly newsletters unless you tell us not to. We would prefer that you actively opt in. See the insert below. We will not share your email address with any third parties.

Technopolis Times' Creed
* Innovation creates sustainable wealth in metropolitan regions where there is easy interaction among the education, government, business, financial, transportation, telecomm, press, arts & entertainment, nonprofit/NGO, and tourism sectors.
* Wealth is enhanced when these metro regions network with each other, especially across national borders.
* The keys to success are entrepreneurship; critical-mass clusters in strategic industries; social capital; and civic activism.
Technopolis Times is here to help aspiring regions succeed.

Technopolis Times' Mascot
Ted the bear, whose name stands for "Technology and Economic Development." See Ted's picture at http://www.generalinformatics.com/technopolistimes.html.

Ted's lawyer wants to remind you that Technopolis Times' *Review of Technology & Economic Development* is a compilation of 3rd-party reports. Technopolis Times and General Informatics LLC are not responsible for their accuracy.

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Other comments?

_____.

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