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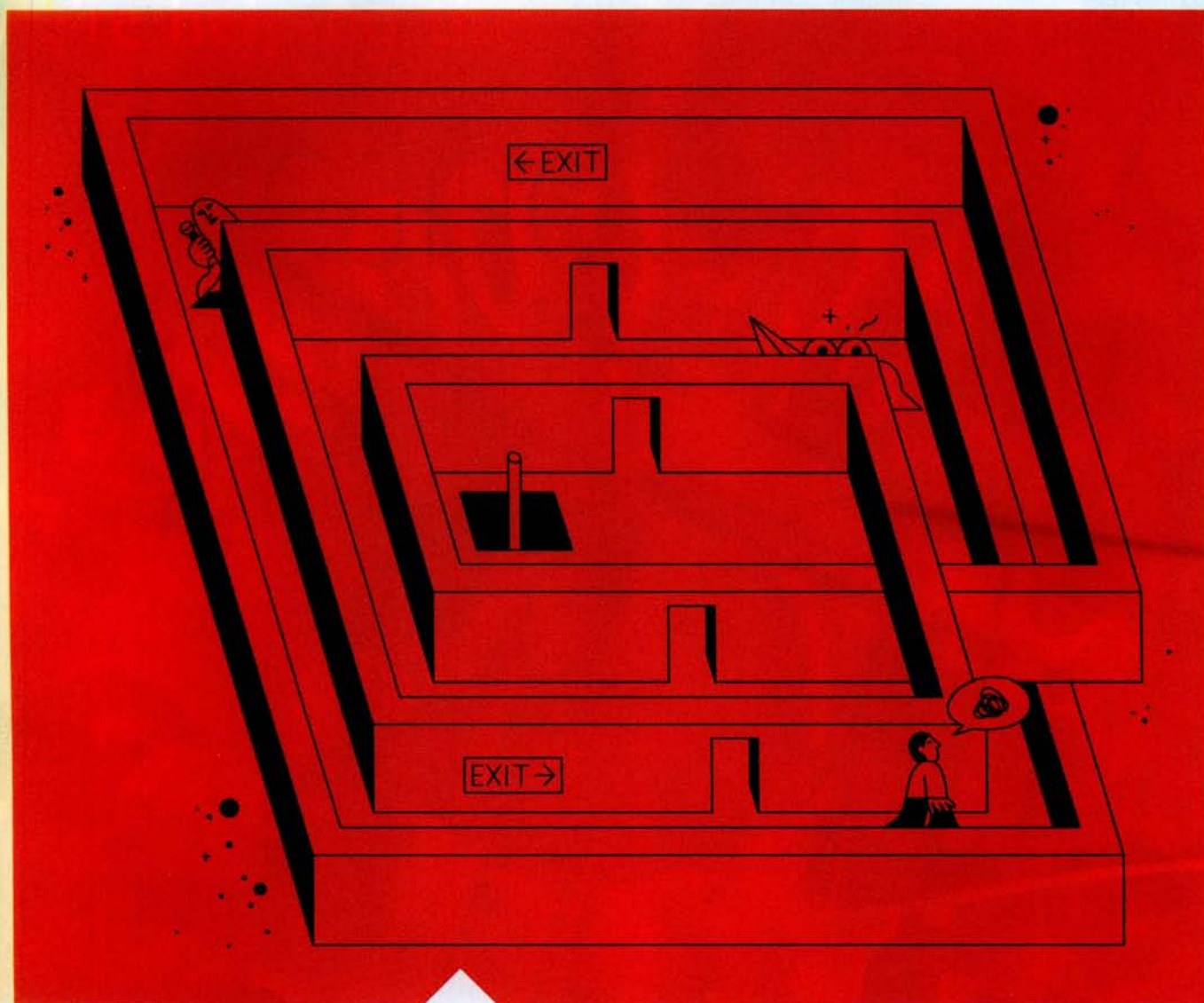
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**A Review of Economic & Social Development**

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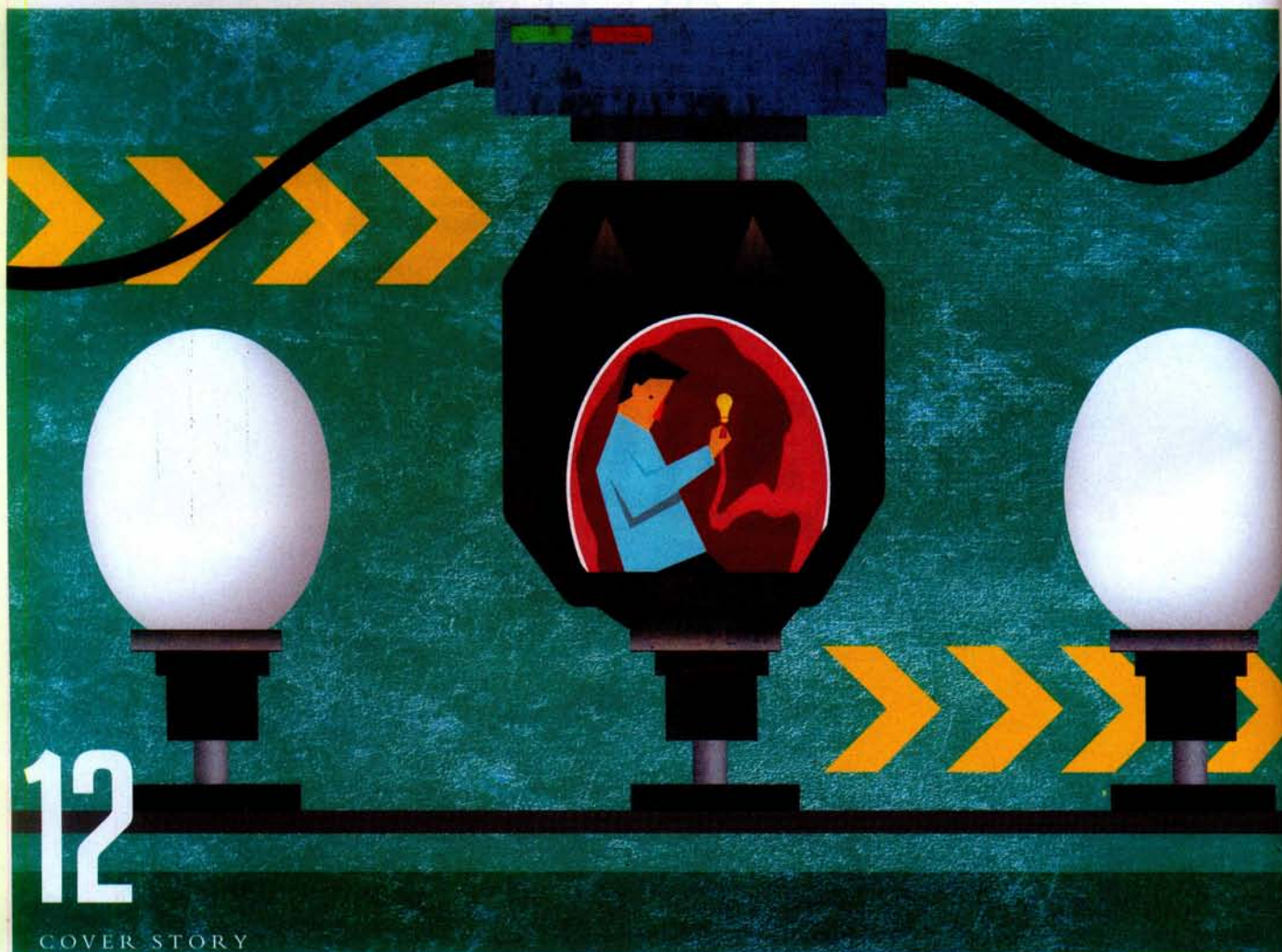
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# THIS ISSUE



## NO RISK, NO REWARD

"When you establish an enterprise that is doing something remarkable about which the employees care and care deeply, you win."

- HAP KLOPP

## CONTEXT MATTERS

A good business model is imperative for success. However, copying successful models from the West can spell disaster.

- PARDEEP GOYAL

## PUSHING FOR POLICY

Government policies can make or break a sector, and the startup domain is no exception to the rule.

- SRIJATA BHATNAGAR

## HATCHING SUCCESS?

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Sometimes, too much of a good thing can lead to disaster. Investors should ensure that startups do not see funding as an endless resource.

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- NUNO FERNANDES



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#### **5** Advanced Analytics for Agricultural Product Development

Joseph Byrum, Craig Davis, Gregory Doonan, Tracy Doubler, David Foster, Bruce Luzzi, Ronald Mowers, Chris Zinselmeier, Jack Kloeber, Dave Culhane, Stephen Mack

Syngenta Soybean Research & Development (R&D) uses advanced analytics, including discrete-event and Monte Carlo simulation models and stochastic optimization, to find opportunities to increase crop productivity and optimize plant-breeding processes.

#### **18** PNG: Effective Inventory Control for Items with Highly Variable Demand

Tovey C. Bachman, Pamela J. Williams, Kristen M. Cheman, Jeffrey Curtis, Robert Carroll

The authors discuss LMI's development of an inventory control solution for the U.S. Defense Logistics Agency. The solution, PNG, manages inventory items with isolated spikes in demand and items with frequent, highly variable demand.

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Aaron K. Baughman, Richard Bogdany, Benjie Harrison, Brian O'Connell, Herbie Pearthree, Brandon Frankel, Cameron McAvoy, Sandy Sun, Clay Upton

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Reetabrata (Reeto) Mookherjee, Jeet Mukherjee, Jim Martineau, Liang Xu, Meggen Gullo, Kailai Zhou, Andrew Hazlewood, Xiaochuan (Tracy) Zhang, Ferrari Griarte, Ni Li

The authors develop a price-optimization system, a set of analytics applications to identify sales opportunities for Ingram Micro's sales force, and a digital marketing platform to run data-driven marketing campaigns.



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Scott J. Davis, Shatiel B. Edwards, Gerald E. Teper, David G. Bassett, Michael J. McCarthy, Scott C. Johnson, Craig R. Lawton, Matthew J. Hoffman, Liliana Shelton, Stephen M. Henry, Darryl J. Melander, Frank M. Muldoon, Brian D. Alford, Roy E. Rice

The Capability Portfolio Analysis Tool (CPAT), an operations research-based tool, uses a novel multiphase mixed-integer linear programming technique to prioritize billions of taxpayer dollars and allow Army acquisition executives to base investment decisions on analytically rigorous evaluations of portfolio trade-offs.

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**Special Issue:** Return from Migration and Circulation of Highly Educated People:  
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**Guest Editors:** J. Gaillard, A-M. Gaillard and V.V. Krishna

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