

# Blasting the classic LEGO brick into the digital age

Faced with decreasing brand relevance and a lack of credibility in the digital world, the LEGO Company ventured into the global market place to blast the classic LEGO brick into the digital age. Experience how the LEGO Company used an untraditional marketing approach to revitalize the LEGO brand and launch MINDSTORMS globally telling the story about The Intelligent Brick in more than 80 countries reaching in excess of one billion people without advertising spending.

## Unfolding the potential for global storytelling

After more than 14 years of research and development, the LEGO Company and MIT were ready to announce the arrival of a new interactive product - MINDSTORMS. Competing against five agencies including one of New York's leading communication agencies - Porter Novelli - SIGMA won the pitch to launch the product worldwide.

"The LEGO Group has had a long lasting dream to combine the creative qualities of LEGO bricks and our basic LEGO values with the power of computers. Now we are able to put the LEGO universe into the computer and the computer into the LEGO brick."

Kjeld Kirk Kristiansen, President and CEO, the LEGO Company

To evaluate the potential and to develop the launch strategy SIGMA presented the MINDSTORMS product description to journalists, scientists, parents, children and the trade. The interest was overwhelming pointing in the direction of an entirely new category of computer-based toys and a story of global news interest. In an industry increasingly characterized by passive entertainment of children, television and violent computer games, media, trade and parents welcomed the introduction of a product that combined the pedagogical qualities of the LEGO brand and the popular computer.

## "Non-commercial" activities create synergy to "commercial" activities

The launch objectives included the positioning a new product category and the revitalization of the LEGO brand; strengthening relevance and getting LEGO back on the "talking list", selling MINDSTORMS boxes and using MINDSTORMS to sell the traditional product range. How was this done?



Global introduction of LEGO MINDSTORMS



First, leading – and non-commercial - opinion leaders outside the toy industry, i.e. IT/ learning experts, were sought to rubber stamp the principles behind the Mindstorms learning concept and the technology developed at MIT – without actually mentioning the products. During November 1997, almost one year before the products would be available in-store, print & web media kits and a video news release (VNR) were distributed to the global press creating high expectations for a new and interactive product technology enabling kids to become better at learning to learn. In this way SIGMA created a solid foundation for the commercial launch: Trade, media and consumers knew that something revolutionary was about to be introduced by the LEGO Company.

Then, in January 1998 – 9 months prior to the actual product launch and two weeks before the annual toy fairs – MINDSTORMS was presented to more than 200 journalists from all over the world at events hosted from London and New York. Presenters included LEGO Company spokespersons, IT & learning experts and children. Print and web media kits were distributed along with a wire press release and a second VNR. Combined, these actions generated massive media interest for the products reaching more than one billion people.



Launching MINDSTORMS to the media two weeks before the toy fairs in Nürnberg, London, New York, Paris and Milano was no coincidence. The message of "the intelligent brick" reached trade representatives who demanded the product no questions asked and offered attractive store placement in return – even though MINDSTORMS was not commercially available yet.

To top everything off and to keep enthusiasm high Reviewers Guides in 8 languages were pitched to entice key media to review and cover the MINDSTORMS story. Also, the MINDSTORMS RoboTour traveled the United States and Europe hosting more than 25 events. The promotional tour was designed to make consumer robotics more relevant and provide alternative media hooks to the MINDSTORMS story: In Hamburg a MINDSTORMS bungy jumper plunged a hair-raising 30 meters from a platform exciting both children and media. And the Wienna RoboTour featured seven robots, which created and played music for an audience of kids and journalists.

Finally, to secure even more attention nationally, to reach the 9-16 year-old consumers and to create impact for the message in more "commercial" media - the September 1998 product launch was supported by product demonstrations in-store, a television advertising campaign and a web community (www.legomindstorms.com). Yet another press event hosted for international journalists from London showed how kids were now able to play with and program Singapore kids' MINDSTORMS robots over the Internet.





# **Global brand revitalization**

The campaign generated massive and positive media coverage the world over via more than 6.000 print articles and 1.500 broadcast stories e.g. BBC, CNN, ABC, NBC, ARD, The Face, Wired, Spiegel, Wall Street Journal, Frankfurter Allgemeine Zeitung and the Financial Times - reaching a total of more than one billion people.







Sex scandal? It's all a right-wing conspiracy, insists defiant Hillary

Using MINDSTORMS as a brand ambassador also had a positive effect on total LEGO assortment sales. With the MINDSTORMS launch as the only "out of the ordinary" campaign, UK sales increased by 15%.

ocès Papon : Me Klarsfeld demande la récusation Les 35 heures

More than 1000 Toys "R" Us managers in Europe and the United States demanded the product with no selling in required, and early sales results pushed retailers to increase budgets by several hundred percent - in some cases. In fact, demand was so high that sales exceeded supply by a factor 3. Also, the LEGO Company gained new distribution and new customers (Playstation target group) when computer and learning outlets such as CompUSA, Learning Smith, Tiger Direct and Discovery Channel decided to carry MINDSTORMS. An important battle in the digital world was won: The LEGO Company took ownership of a new interactive product category and gained a digital and more cutting edge image adding digital giants such as Microsoft and Sony to the list of competitors.

# **LEGO MINDSTORMS media coverage**

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**TECHNOLOGY** 

#### INANCIAL TIM H Children's toys Asian aftershock Today's survey Education

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Crips.

Lessons of the league tables

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S tick the words intelligent and brick together and you get a classic oxymo-rot. But to Kjeld Kirk Kristiansen, the man responsible for filling toy boxes around the world with untold numbers of brightly goloured Lego parts, the intelli-gent brick is an inspired device in the battle against stagnant toy sales.

The brick, to be unveiled in London today, will allow children to create and program autono-mous robots.

to create and program autono-mous robots. Not much bigger than a pack of cigarettes, and powered by the bornon AA size battery, the bornon AA size battery, the second computer. Mr Kristiansen puts an enor-moto and the solitist of the product's ability to woo children product's ability to woo children word words ability to woo children bord and the solitist of the computer games to a more physi-cal form of play. The intelligent brick has emerged after many years of development and an investment of at least £10m that is likely to deave last year's profits down on the 1996 figure of DKressen (652m). "I have had this dream for a number of years." says Mr Kris-tonsen, grandson of the founder



Playing will never be the same as Lego unveils a smart addition to its blocks, writes David Blackwell

The intelligent

building block

ogy, Page 18

Its DIOCKS, WHIES Its DIOCKS, WHIES Its DIOCKS, WHIES Its and the software was suff-able to the software was suff-able out the software was suff-valeo until the software was suff-stated. To that end, the group set up with the Massachusetts Institute of Stehnology, which has been each of the software the software the stig the bricks with children being of the software the software software the software the software with the Massachusetts Institute of Science and the software the software the software with software the software the software wind software the software the software windsoftware the software the software the software the software the software windsoftware the software the software the software the software the software windsoftware the software the software

Profits shaken

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throughout the world

lies or school parties will be able to build and program their own robots. Mr Kristiansen aims to get the and associated Lego sets, on to forms - one under the Mind-torms brand and another to be linked with Lego Technic sets. Priced just above \$200 (£125), they will be the most expensive toys ever sold by the group, and the first to be available via the internet.

The rejects any suggestion that the new toy is a gamble with the future of the group, maintaining that the development would have gone ahead whatever the state of the toy market. "I see it



Federal Republic

of Yugoslavia

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Roving brief: a Lego Nasa space vehicle in a Martian landscape

more as a logical step," he main-tains. "In the 1960s we added motors, wheels and movement to the basic bricks - now we are adding intelligence and behaviour to our building systems".

systems." The software requires a per-sonal computer with Windows 95, a Pentium chip of 90Mbz or higher, 16MB of Ram and 40MB of free hard disk space, and a

free serial port to connect the transmission tower. Tego claims that children from the age of eight will be able to use it. Tormod Askildsen, strategic optimistic manager, exhibits a childlike enthusiasm about he intelligent brick which he says – unlike many other Lego stits – appeals to girls as much as boys.

"It can be used to make all kinds of devices," he says, sug-gesting an intruder alarm that could be set up to empty a bucket of ping pong balls on an unsus-pecting parent visiting a child's room

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room. room. The robot pictured above shows a Lego copy of a Nasa space vehicle on a model Martian landscape. Schoolchildren in Chi-cago have been able to program its movements using the pictures sent back from the digital cam-ore era

"They can relate to something like last year's Mars mission," explains Mr Askildsen. "How did Nasa control the vehicle on a dis-tant planet? They can try it for themselves."

tant planet? They can try it for themselves." Mr Kristiansen says that there is a high correlation between children who like playing with Lego and children who are fond of computing and programming. "It is about the same way of thinking – constructing and creating." The intelligent brick will open up a new market in home learn-ing, be believes. "Parents want to stimulate their children. Instead of ust sitting at a computer with a video game, there is a physical model. Children want it to do something specifically – they can see how it works and change things because it did not do what they wanted."

# LEGO MINDSTORMS media coverage

# THE WALL STREET JOURNAL EUROPE.

#### **Beyond Blocks** OWJONES

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Lego Seeks to Build A Bright Future hry Sa With 'Smart Toys' .round

> New Gizmos Allow Children To Construct Robots. Program Video Cameras

)DRESS: http://wsj.com

What's News

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#### A New Way to 'Leg Godt'

By Joseph Pereira And Cacilie Rohwedder

And Carlier Borwinsons Suff Departures Soft LONDON-Shinger, a 30-centimeter-long plastic bee, squares off against agan-gly robot who identifies binsmelf with a threat, "I am Crusher and I will destroy you," growts the robot in a hoarse elec-tronic voice. Stinger is unfazed. In a few minutes, the insect corners his opponent, brandish-ing a yellow-and-black arm with a tip that zups his foe with a small electrical charge. Crusher stops moving. Game over. "It's great fun," beams 12-year-old Matt Bright. The youngster from Bracknell & Low

It's great ton, beams 12/920/00 Mat Bright. The youngster from Bracknell, a Lon-don suburb, is being treated to a preview of 6 of Demma the line of the sub-order of the second state of the sub-done before. Mindstorms has at its heart a palm-size microcomputer bristling with sensors. The device, dubbed the "brain in a block," has Lego's distinctive interlock-ing architecture and fits together with its standard building blocks, making possible the construction of robots and other "smart" toys.

#### Monumental Makeover

Monumental Makeover Mindstorms – which was unveiled at the Nuremberg Toy Fair in Germany last week and will make its U.S. debut today at New York's Toy Fair – is Lego's answer to the popular interactive toys and games of the likes of Nintendo Co, and Microsoft Corp. Intedeu, Yoorried that lefevision has permanently eroded the concentration children need to be captivated by its tradi-tional to the complexity of the soft of the makeover – which Mindstorms is only a net.

makeover-of which Mindsforms is only a part. In addition to Mindsforms, Lego plans to offer European children an equally ad-bears closer resemblance to a video game, constant with a fantary word, a further on the state of the state of the state of the plans to come out with an animated show menagerie of characters-early next year. Also in the works are a live-action TV show for distributions are alive-action TV show for block children, a series of films, videos, OLEON games, and books and music in more and the state of the state of the state of the other children, a series of films, videos, OLEON games, and books and music in Also in the works are a live-action (1 v show CD-RGM geness, and books and music in cooperation with business partners. It plans to add three LegoLand theme parks, including one scheduled to open in Califor-nia in March-to the two it already oper-des, and soon, its red-and-yellow logo will be seen on a siew of children's merchan-dise, including clothing, bedsheets, paper goods and party favors. By the year 2006, says hildren (1 km krister) is our intention to have the most powerful brand among families with children." As important as it is for Lego, Mind-storms is also a long-awailed test for a team of scienticial intelliguene into the hands of young children. For the most part, their efforts have been consigned to the classroom and queit after-school pro-"""" is a low and say methans the most

much to young connuclear too use muss phere classroom and quiet after-school pro-tests. "This is, I would say, perhaps the most dramatic moment in my long years of making artificial intelligence more chi-dren-friendly," declares Prof. Seymour Papert, who occupies a Lego-endowed chair at Massachusetts Institute of Tech-nology and who, with his colleagues at the university's Media Lab, helped Lego devel-op Mindstorms. Just as Lego gave children the ability to make things with plastics a quarter of a century ago, Dr. Papert says, it will now, as a result of the Media Lab's research, allow children to do the same with digital technology. The Lego system will start appearing on relail shelves in the U.S. and burope in Aonpany chairs his more rolle and varied than phots and interactive toys already on hem market. Combining tight, touch and heat sensors and viole-recognition capa-bilities with a microcomputer that serves as a primitive central nervous system, Mindsforms crobols can fetch things, wake you, deal cards, warn of an intruder-and, of course, duel other robots. Mindsforms creations don't have to be robots, either. They can be configured as trucks or bridges, or any moving cre-ation-an invitation for young users to brainstorm. Or so goes the Lego pitch. Anxious Londeers-On

Anxious Lookers-On

Branstorm. Or so goes the Lego pitch. **Anxious Lookers-On** Methods and the set of the

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**The Outlook** 

Asia Watchers Mull Cumulative Damage

A Bright Future

# 'Smart Toys Lego Builds a Future With

Continued From First Page video-game play. The video-game maker

says it is no longer a sponsor. Dr. Papert, who headed the Nintendo project, says: "Though we did a lot of research and real-ly came up with some interesting thingsincluding making tools that would enable children to make really elaborate computer games-neither Nintendo nor any other video-game maker really became enthusiastic about it."

If successful, Mindstorms would be a chance for the Media Lab to redeem its reputation, says Karen Coyle, Western Re-gional Director for the Computer Profes-sionals for Social Responsibility, a group of technologists at the University of Cali-formic at Davideur that advantage greater fornia at Berkeley that advocates greater assimilation of computers into society. "If you feel that scientists are responsible for the betterment of society, then you have to rate the Media Lab fairly low," she charges. "Because if you look at what the Lab has turned out, until recently it hasn't been all that useful."

been all that useful." Mindstorms could also be a turning point for Lego, a company that has been singularly—and successfully—block-head-ed for most of its history. Its headquarters in Billund, a small town in central Den-mark factures Christmas traces made of mark, features Christmas trees made of Lego blocks, Lego mosaics and giant fiber-

glass sculptures of Lego blocks. Lego began as a small carpenter's shop in 1916 and was converted into a wooden-toy manufacturer when housing construction collapsed during the Great Depression. In 1934, company founder Ole Depression. In 1934, company founder Ole Kirk Christiansen, the current chief execu-tive's grandfather, commissioned an em-ployee contest to devise a brand name, choosing a variation of the Danish words leg godt, or "play well." Its first plastic toy, a tractor that could be dismantled and reassembled, came out after World War II. When the wooden-toy

factory burned down in 1960, Lego decided to bet its future exclusively on plastic bricks. It won customers by convincing schools of the blocks' educational value in preschool play and by enlisting toy shops to feature elaborate Lego creations as pro-motional displays. The company for about 20 years consistently racked up annual double-digit growth, eventually taking an 80% share of the global and U.S. construc-tion-toy markets.

### A Guy Thing

But over the past three years, Lego has sputtered. Sales of about \$1.2 billion in 1997 spatiered. Sales of about \$1.2 billion in 1997 barely represented a gain over 1996, after inflation is factored in-due partly to dis-appointing results in Germany and the U.S., Lego's two largest markets. An effort to interest girls in construction toys has been unremarkable. The girls' line, intro-duced earlier this decade, is no longer marketed in the U.S., says Rob Ellis, Lego's vice president of brand marketing for the U.S. for the U.S.

Something new was needed. "It's become quite clear that to be a superbrand, we can't only be in construction sets any more," says company spokesman David Lafrennie. "Bricks will not get us to where we want to be in 2005."

For one thing, children weaned in the age of video games may not be accustomed to the intensity of concentration required for construction toys. "I think kids are a little more impatient today," says Peter Eio, head of Lego's U.S. unit. "They want faster results. They want instant gratifica-tion." tion.'

TV, which is blamed inside the company for much of the change in children's play habits, figures heavily in the makeover. Lego plans to launch a TV ad campaign in the autumn to trumpet to parents the imaginative and educational as-pects of its toys. The campaign, plus Lego's Mindstorms promotions, will dou-ble the company's U.S. advertising budget to more than \$32 million this year from last.

But there's a risk that Lego's loyal fans may not cotton to the new TV-and-space age Lego, says Andy Brown, a brand reage Lego, says Andy Brown, a brand re-searcher for Total Research Corp.'s Equi-trend Report in Princeton, New Jersey. Given that Lego's hard-core customers tend to come from affluent and well-edu-cated social strata, "Lego needs to be ex-tremely careful trying to broaden its mar-ket appeal," he says. "In doing so, it could reposition itself as a brand it doesn't really want to be" and lose cachet among its eswant to be" and lose cachet among its es-tablished customers.

Internal company studies indicate some erosion in name recognition among some erosion in name recognition among consumers, many of whom don't instantly identify Lego with education and imagina-tion anymore. "In recent years, Lego has introduced some sets that didn't sell," says Klaus Westenhoefer, owner of Pup-penkoenig, a large toy store in Bonn, Ger-many. "The Lego name alone doesn't guarantee that the product works."

"While the brand continues to stand for high quality in the minds of con-sumers," says Lego's Mr. Ellis, the falling name recognition, "if left unchecked for a longer period of time, could become seri-ous." ous.

Prof. Levin says subtle changes in the company's core line of Lego-block products in recent years reflect attempts to respond to changes in the market. After years of selling generic, all-purpose construction sets, the company several years ago began selling single-purpose building kits. Then

the violence-eschewing firm started mar-keting more toward the aggressive instincts of boys, coming out with castle themes, featuring cannons, swords, and bows and arrows. (The company main-tains its policy of not making guns.)

**Beyond Blocks** 

Lego Seeks to Build

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## 'Veiled Violence'

"It's what I call veiled violence," says Marjorie Stanley, a mother of four boys from Sturbridge, Massachusetts, who says she has been a big Lego buyer in the past but has been less enamored of newer products. She says Mindstorms sounds interesting enough to get her into the store, but she adds that she will scrutinize the toy carefully before making

any decision. Then there's the question of whether children are willing to invest the hours it can take to program the robots—especially to gain more-sophisticated robotic effects. In one of Dr. Papert's favorite examples about Mindstorms, two eight-year-old girls decided to build a cat and a kitten in one field test of the toy. The idea was to have the mother come to the kitten when it beeped and flashed its eyes. By Dr. Pa-pert's account, it took weeks for the toys to function as programmed.

From a parental point of view, the dili-gence children need to work through the bugs and technical quirks would provide strong lessons for a child. But some analysts doubt that many children have the patience and determination to make playing a serious project.

Lego isn't waiting to find out. Mind-storms sequels already are in the works. At the Build-It-Yourself Workshop in Cambridge, Massachusetts, children experi-ment with prototypes from the Media Lab

that interest Lego. With one of these, a microcomputer even tinier than the one used in Mindstorms, 10-year-old Kayty Himmelstein was able to solve a problem with her birdwatching hobby. Since she is usually at school during the day, Kayty often misses sightings at her backyard feeder. So she set up a video camera to record their feed-ings. But instead of taping for hours and then searching for what she wanted, she programmed the microcomputer, called Cricket, to turn on the camera only when birds alighted on the feeder and touched off a weight sensor.

At the workshop, children tinker with a variety of Cricket-driven gizmos: Cuckoo clocks, dancing robots, temperature gauges, fortune-telling wizards.

"Building these projects is fun," says Kayty. "But I wouldn't call it playing. For play I like to kick a soccer ball."