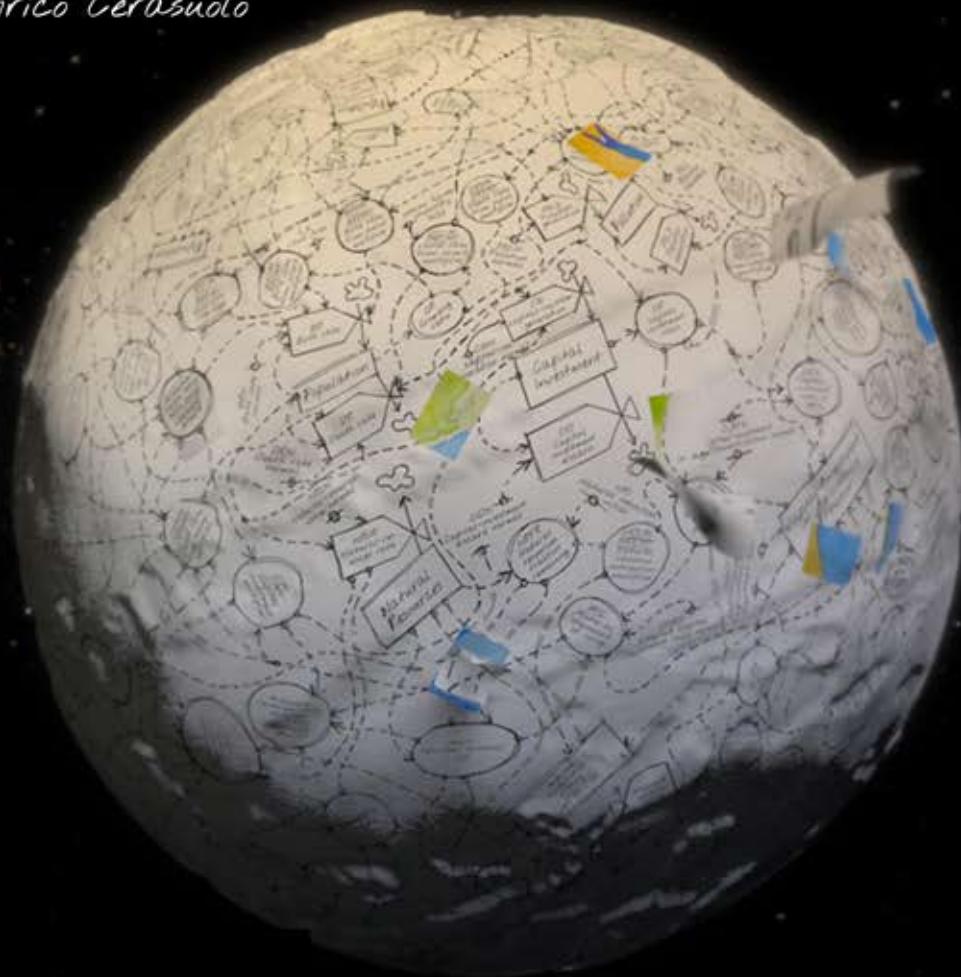


# LAST CALL

*A documentary by Enrico Cerasuolo*



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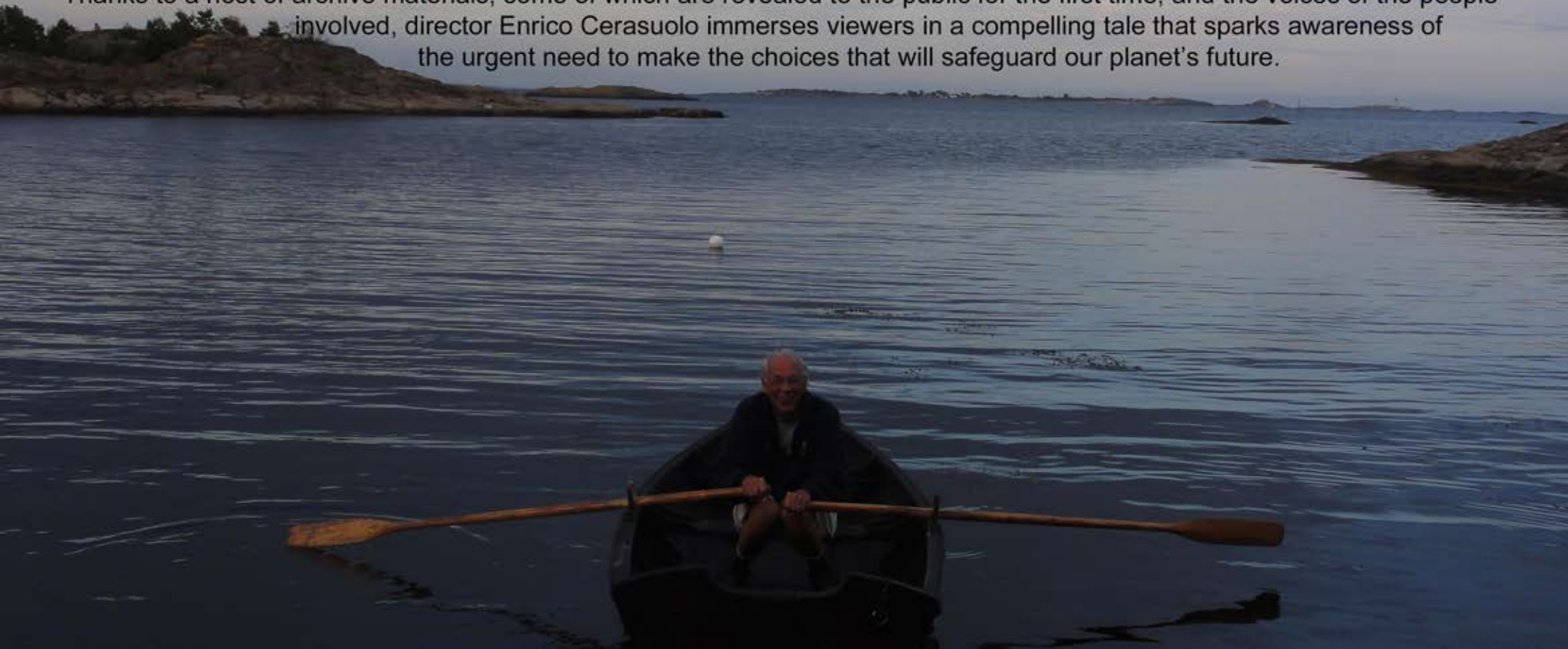
# SYNOPSIS

40 years ago a book shook the world. *The Limits to Growth* was the result of research by a team of young scientists from MIT, commissioned by the Club of Rome, a think tank founded by Italian entrepreneur Aurelio Peccei. One of the most controversial and inspiring studies of all times, today its key message is more relevant than ever: Planet Earth is a finite system in which exponential economic growth risks leading societies and the environment to overshoot and collapse.

Four decades after the book's publication, economic and political shortsightedness continues to delay action despite the analysis that forecast current scenarios.

Today the authors of *The Limits to Growth* provide provocative insight into the reasons behind the ongoing global crisis and share their visions of mankind's future. Is there still time for one last call?

Thanks to a host of archive materials, some of which are revealed to the public for the first time, and the voices of the people involved, director Enrico Cerasuolo immerses viewers in a compelling tale that sparks awareness of the urgent need to make the choices that will safeguard our planet's future.





# CHARACTERS

## AURELIO PECCEI



Born in 1908, Italian. A manager for FIAT, he started traveling in the '30s to China and the Soviet Union. During WW2 he was part of the Italian Resistance, spent a year in jail in Turin where he narrowly avoided death by firing squad twice. After the war he founded FIAT Argentina, became vice-president of Olivetti and founded Italconsult. In the '60s he came to know the United States, was one of the first to sense what globalization is and decided to change, devoting the rest of his life to overcoming east-west divisions and the difference between the north and the south of the world. He wrote books (*The Chasm Ahead*, *Human Quality*) and gave speeches which intrigued Soviet citizen Jermen Gvishiani who introduced him to Alexander King. This meeting spawned the Club of Rome, founded in 1968, and *Limits to Growth*. Peccei continued to fight for a utopia made of enlightened capitalism and world governance until his death in 1984.

## JAY FORRESTER



Born in 1918, he lives in Concord, close to Boston, Massachusetts. A scientist and computer science pioneer, he developed project Whirlwind in the '40s and '50s and invented magnetic memory for computers, one of the foundations which allowed the development of information technology. In 1956 he moved to MIT. He founded system dynamics, the science simulating interactions between complex systems. First he applied this new science to studying industrial dynamics, then to urban dynamics, and finally to the entire world: his book *System Dynamics* already contained the mechanisms which made *Limits to Growth* so famous, but it was too scientific and complicated for the public at large. In June 1970 he put forward his vision to the Club of Rome in Berne and on the way back to Boston he designed World, the model behind *Limits to Growth*.

## DENNIS MEADOWS



Born in 1942, lives in Durham, New Hampshire. A scientist and an expert in system dynamics, he led the MIT team that wrote *Limits to Growth*. He started travelling around the world in 1972 to communicate the results of their research and became the book's incarnation. He was the most famous and recognized member of the group, but as such over the years he has had to answer personally to all the criticism levied against the book. From the early '70s he chose a sustainable lifestyle on a farm. He still promotes and supports study groups around the world. On a global scale his latest initiatives is the development of an educational game about the oil peak. On a local scale he is leading the effort to create a community

gardening program in his town. We will follow his initiatives and through him we will meet the other authors and Professor Forrester. In January 2009 he was awarded the prestigious Japan Prize for his contribution towards a sustainable world as founded in the 1972 *Limits to Growth*

FLOW DIAGRAM OF WORLD1

AS MODIFIED TO BECOME WORLD2



# CHARACTERS

## JORGEN RANDERS



Professor of climate strategy at the BI Norwegian Business School, where he works on climate issues and scenario analysis. He was previously president of BI and deputy director general of WWF International in Switzerland. He lectures internationally on sustainable development and especially climate, and is a nonexecutive member of a number of corporate boards. He sits on the sustainability councils of British Telecom in the UK and the Dow Chemical Company in the United States. In 2006 he chaired the cabinet-appointed Commission on Low Greenhouse Gas Emissions. Randers has written numerous books and scientific papers, and was coauthor of *The Limits to Growth* in 1972, *Beyond the Limits* in 1992, and *Limits to Growth: The 30-Year Update* in 2004. In 2012 he published *2052 - a Global Forecast for the Next Forty Years*.

## WILLIAM BEHERENS III



After the publication of *The Limits to Growth* he went to live on a farm in Maine where he was supposed to spend a sabbatical year, and he is still living in Maine today. His job is now installing domestic solar energy devices. Dennis Meadows and Jorgen Randers kept in touch with him, they are old friends and from time to time they visit him. The three of them will meet again for the film.

## DONELLA MEADOWS



She was the group's humanist and a talented writer. She was the book's main author, making it easy to understand for the public at large and charging it with hope and utopian aspirations. She was an environmental activist and was often critical of American governments and corporations. We will meet her in the film thanks to archive footage.

FLOW DIAGRAM OF WORLD1  
AS MODIFIED TO BECOME WORLD2

# CREDITS

a co-production  
Zenit Arti Audiovisive, Skofteland Film, ZDF

in collaboration with  
ARTE

in association with  
NRK - Norwegian Broadcasting Corporation, RSI - Radiotelevisione Svizzera  
UR - The Swedish Educational Broadcasting Company  
LCP Assemblée nationale, Chelsea Green Publishing Company

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With: Dennis Meadows, Jorgen Randers, Bill Behrens, Jay Forrester, Donella Meadows,  
Aurelio Peccei, Anna Pignocchi, Hugo Thiemann, Peter Milling, Eric Zahn, John Sterman,  
Diana Wright, Elizabeth Sawin

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Sound: Krister Johnson

Art Director: Tommaso Cerasuolo

Editor: Marco Duretti

Music: Gregorio Caporale, Antonio Raspanti, Tommaso Cerasuolo

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# THE DIRECTOR

## ENRICO CERASUOLO

Born in Venice, 1968. Degree in Political Sciences, Contemporary History. Documentary director and screenwriter.

He wrote and directed:

**From Garibaldi to Berlusconi, 150 years of Italian History**, (2012, 118'. An ARTE / Les Films d'Ici / Zenit Arti Audiovisive co-production, in association with RSI Televisione Svizzera Italiana, with the support of Media Programme of the European Union, PROCIREP ANGOA, Piemonte Doc Film Fund, Città di Torino, with the participation of Centre National de la Cinématographie.

**The Hidden Face of Fear** (2008, 52', an ARTE France, Les Films d'Ici and Zenit co-production, with the participation of YLE and CBC Radio Canada). Grand Jury Award at Rome Docscient Festival 2009; Official Finalist at Las Vegas International Film Festival, 2009; Bronze Award, Health & Science Communications Association Media Festival, 2010

**Space Hackers** (2007, 52', a Zenit, Studio International and ARTE France co-production, with the participation of FOX International Channels Italy, RAI Educational, SBS, RTSI, TSR, VPRO, DR TV, YLE, RTBF, Planète). Golden Statue at Roshd International Film Festival, 2008.

**Peter's Dream** (2007, 54', an AMREF and Mestiere Cinema co-production). Best feature length documentary at A film for Peace International Festival, 2008.

**Checosamanca** (2006, 98', an Eskimosa and RAI Cinema co-production), collective documentary, episode on the street lawyers from Torino.

**The Enigma of Sleep** (2004, 60', a Zenit, Les Films d'Ici and ZDF-ARTE co-production, with the participation of Discovery Channel, YLE, RTSI). Special Jury Award at Torino Film Festival, Doc2004; Special Jury Award at Castellana Grotte International Documentary Film Festival of Scientific Exploration and Adventure, 2005; Prix Spécial Film de Recherche Médicale, Festival des Entretiens de Bichat, 2005.





# PRODUCTION COMPANY

## ZENIT ARTI AUDIOVISIVE

Zenit Arti Audiovisive is an independent production company based in Torino founded in 1992. The eleven members are specialised in directing, screenwriting, executive production, editing, shooting, computergraphics.

Since then Zenit worked with the main Italian and European broadcasters.

In 2005, 2009 and 2012 Zenit was awarded with the Slate Funding Fund of the Media Programme.

### Selected Works:

**Me, my family and Woody Allen** by L. Halilovic, (prod. Zenit with Rai, developed with MEDIA Programme, Open Society Institute, Piemonte Doc Film Fund, Council of Europe, Regione Piemonte, Council of Torino). Italian most awarded documentary in 2009.

**Almost married** (2010) by Fatma Bucak and Sergio Fergnachino, prod. Zenit in collaboration with Don Quixote and MOVE, with the support of Piemonte Doc Film Fund, Regione Piemonte, Festival Haivistomai. In competition at IDFA 2010, screened at MoMa in New York in 2011, Casa Rossa Award at Bellaria Film festival 2011 and best documentary award at Cinema del reale Festival in 2011.

**Programma 101, the machine that changed the World** (2011), by A. Bernard and P. Ceretto, co-prod Zenit/Docabout/Franti Nisi Masa, with the support of MEDIA Programme and Piemonte Doc Film Fund in association with Fox International Channels Italy, Yle, UR, SBS; best documentary at RomaDocScient 2011 and Vedere la Scienza 2012 and Imperia Video Festival 2013.

**From Garibaldi to Berlusconi** (2011) by E. Cerasuolo, co-prod Arte/ Zenit/ Les Films d'ici with the support of MEDIA Programme, Piemonte Doc Film Fund, CNC, in association with YLE, Rsi, Fox International Channels.

**Murge, the cold war front** (2012) by F. Galatea, with the support of MEDIA Programme, Apulia Film Commission and Piemonte Doc Film Fund in association with Rai 150. Collino award at Piemonte Movie 2013

**Cultural Shock** (2013) by D. Tosco. with the support of MEDIA Programme, in association with Rai Educational, with the support of Ministero dell'Interno.





# PRODUCTION COMPANY

## SKOFTELAND FILM

Skofteland Film AS, established in Oslo, Norway, in 2006 by Hilde Skofteland, is an independent TV and film production company that produces critically acclaimed documentary films and documentary series for the national and international market. Skofteland Film specializes in making warm, intimate films which touch on important themes. Our mantra is to combine viewer-friendliness and high end quality. Among Norway's larger documentary film production companies, we cooperate produce and co-produce in Norway and across the borders.

### Selected works:

**Thaifjord** (2008/2010) by T. K. Skeidsvoll et al, 6+8 part doc series. An audience favorite screened at TVNorge and SVT. Awards: Gullruten 2008, 3 Nominees: Gullruten 2010; Best TV Moment, Best docu soap, TV personality of the Year.

**Harvesting the Wasteland** (2008) by H. K. Kjøs and K. Grindaker. Single doc: Awards: Best Editing, Gullruten 2009. Opera Prima Award: Best First Doc at Docupolis 09-IX Festival International Doc de Barcelona 2009. The Norwegian Doc Festival: Best Documentary 2008. Honorary Mention at The Norwegian Short Film Festival 2008. Nominee: Amanda ("Norw. Oscar"): Best Documentary, and Gullruten 2009: Best Documentary. Screened on NRK, SVT, YLE FST.

**Så kort og mærkeligt livet er** (2008) by A. Østergaard, single doc, co-production with Everest Pictures for DR.

**Memento Mori** (2008) by M. F. Nøren. Single doc, screened at NRK, co-produced with YLE FST.

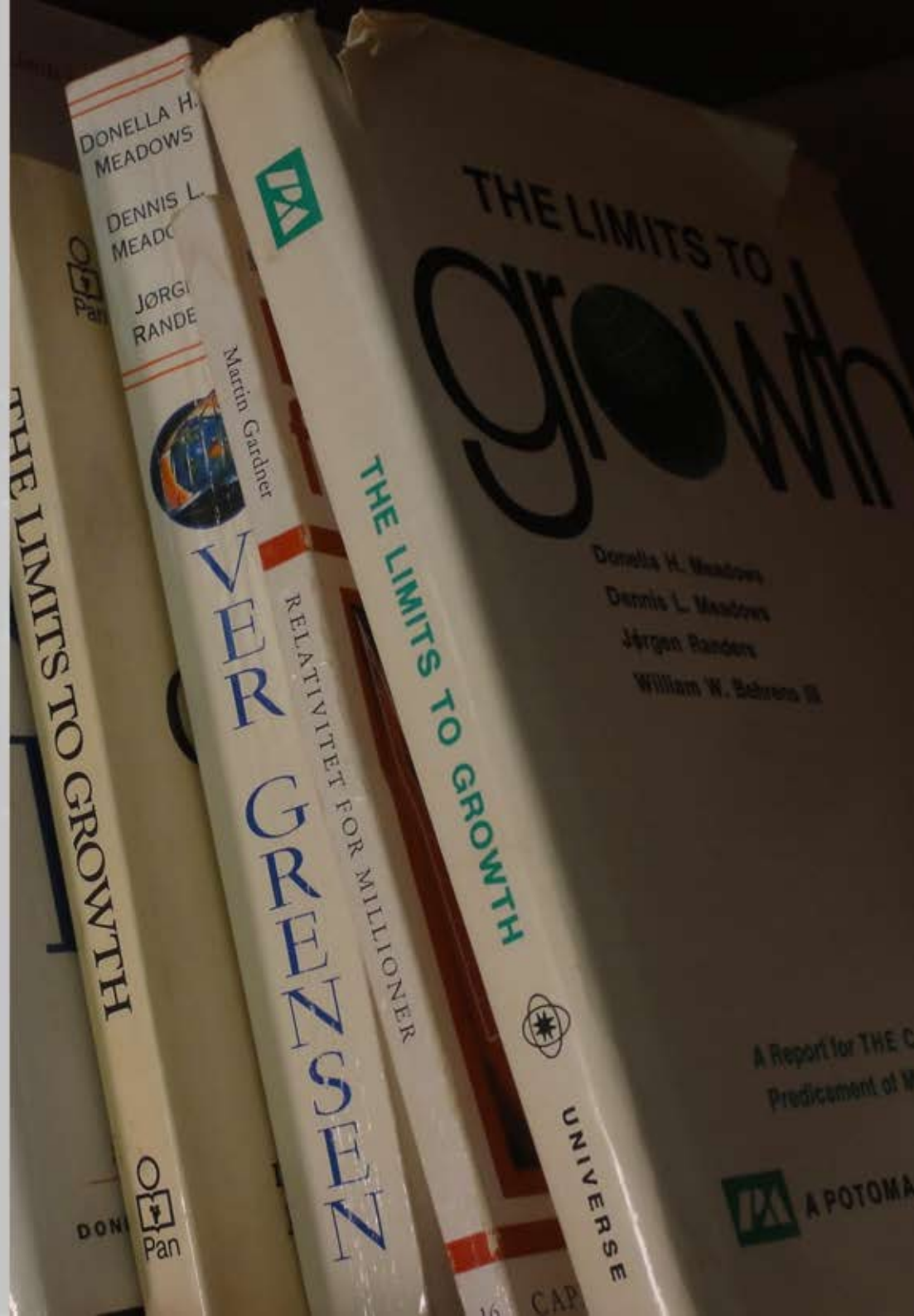
**Songs from the Street** (2008) by M. F. Nøren. Single doc, screened on NRK and at Krakow International Film Festival. Audience Award, Volda International Documentary Festival 2010.

**Shabana's Choice** (2010) by M. R. Gaarder, single doc. Screened at NRK, SVT, RUV, NTR.

**The Sarnos – A Life in Dirty Movies** (2013) by W. Ericsson, single doc, co-production with Anagram Produktion (Sv). To be screened at SVT, NRK, DR.

**The Optimists** (Autum 2013) by G. Westhagen Magnor, feature theatrical doc, tv hour and 3 part tv series, co-produced by Mantaray Film (Sv), NRK and SVT.

**I see You** (Autum 2013) by S. Måkestad, co-production with Mantaray Film (Sv) for SVT.







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# LAST CALL

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