

## Simulator-based Help for Training Heavy Equipment Operators

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## Presentation Overview

- heavy equipment operator training challenges
- help from simulation
- Simlog's new "Personal Simulators"
- creating new training opportunities in your community (with Simlog help)
- conclusions

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## Introducing Simlog

- Montreal-based "spin-off" from one of Canada's leading computer science research institutes (1999)
- single *business* focus: *training* simulation for heavy equipment operators in forestry, mining, and *construction*
- single *product* focus: "*Personal Simulators*"

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## Simulator-based Help (1)

Better evaluate the "aptitude" of your training candidates

- up to 30% lack the necessary human abilities to become fully proficient

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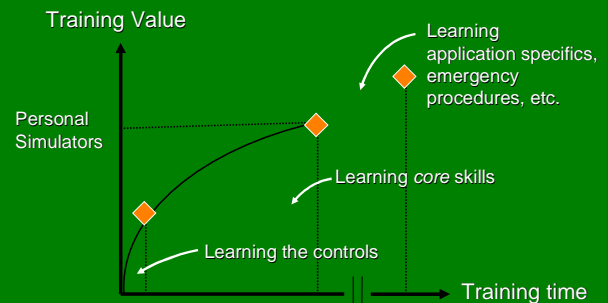
## Simulator-based Help (2)

Better prepare your new operators for their time at the controls of real equipment

- trainers teach by showing
- students learn by doing

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## True Cost-Effectiveness



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## Simlog and your Training Programs



## Mechanized Logging Equipment



## (Underground) Mining Equipment



## Mobile and Tower Cranes



## Hydraulic Excavator



## Off-Highway Truck



## Wheel Loader



(in progress)

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## (Surface) Mining Equipment



Electric Rope Shovel

Mine Haul Truck  
(in progress)

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## On the horizon from Simlog: extra operator training help

For earth-moving equipment:

- dozer
- motor grader

For material handling equipment:

- overhead bridge crane

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## Unique Product Model (1)

Keys to true cost-effectiveness:

- the computing and graphics horsepower of today's (Windows) PCs
- the availability of "USB ready" simulator controls



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## Unique Product Model (2)

Five easy steps:

1. Begin with a suitable laptop or desktop PC.
2. Connect and calibrate your simulator controls.
3. Install your Simlog software.
4. Use the *free* Evaluation Mode to review everything with your staff.
5. Purchase the software license ... one time fee!

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## Options for Everyone

- use a desktop or laptop PC
- use a monitor, projector, or "big screen" display
- 3 Simlog choices for simulator controls
- 3 Simlog choices for language: English, French, Spanish (install just what you need)
- 2 Simlog choices for software licensing

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## "Personal Simulators" A Proven Concept

- over 650 software licenses sold all around the world
- in 34 countries: Australia, Belgium, Brazil, Canada, Chile, Denmark, England, Finland, France, Gabon, Greece, Germany, India, Ireland, Italy, Lithuania, Luxembourg, Mexico, Morocco, New Zealand, Niger, Nigeria, Poland, Romania, Saudi Arabia, Scotland, South Africa, South Korea, Spain, Sweden, Trinidad and Tobago, United Arab Emirates, United States, Uruguay

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## Customers' "Operator Chairs"



YrkesAkademin (Sweden)



NAHETS (Georgia)

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## Simulator Labs (1)



Forssa (Finland)  
4 stations

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## Simulator Labs (2)



UTC (USA)  
7 stations

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## Simulator Labs (3)



College of New Caledonia  
12 stations



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## "Personal Simulators" in Canada (1)

Six Community Colleges (34 simulators):

- Collège Boréal (ON)
- College of New Caledonia (BC)
- Durham College (ON)
- New Brunswick Community College (NB)
- Nova Scotia Community College (NS)
- Olds College (AB)

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## "Personal Simulators" in Canada (2)

Ten Public Sector Schools (57 simulators):

- CFB Gagetown's School of Military Engineering (NB)
- 7 technical high schools in Québec (with vocational training programs)
- Saskatchewan Indian Institute of Technology (SK)
- Aboriginal Skills and Employment Partnership (BC)

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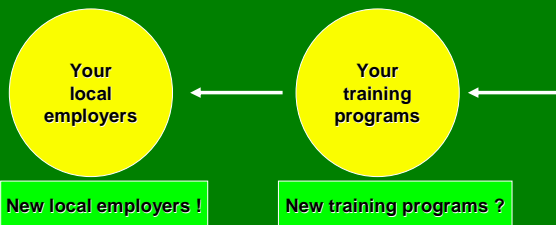
## "Personal Simulators" in Canada (3)

Other Simlog customers in Canada:

- 3 Union Schools (15 simulators)
- 9 private sector training companies (19 simulators)
- 9 owner/operators of heavy equipment (13 simulators)

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## Simlog and your Training Programs (bis)



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## Create New Training Opportunities in your Community (1)

"Personal Simulators" as the *enabling* step:

- your local companies provide work terms at the controls of real heavy equipment
- you provide students who are
  - pre-screened for operator aptitude
  - carefully prepared for real seat-time

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## Create New Training Opportunities in your Community (2)

Everyone wins:

- you obtain new training programs that leverage your existing school "infrastructure"
- your local companies obtain new, well qualified, operators (in forestry, mining, and construction)
- together, you create new, well paid, job opportunities for your community

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## Create New Training Opportunities in your Community (3)

A local example: the "Forest Equipment Operator Certificate Program" developed by the College of New Caledonia

- to learn more, please make time for their "lab tour", with simulator demonstrations, later today

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**Product demonstrations  
at our Simlog booth!**

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