

FROM BACKPACKS TO JETPACKS HAND PICKS TO SKIDSTEERS

LEVERAGING OLD TOOLS AND NEW
TECHNIQUES FOR LONG TERM
SUCCESS



THE ETERNAL QUESTION:

DUDE, WHERE IS YOUR JETPACK?

DREAM OR REALITY?



IF NOT JETPACKS.....

IS THERE NEW OR OLD TECHNOLOGY
FOR MORE EFFECTIVE, LARGE SCALE
WEED MANAGEMENT?????

PROBABLY

WHERE DO WE LOOK?

WHO ELSE WORKS WITH A LOT OF
WEEDS IN LARGE SCALES AND IN
REMOTE AREAS?

FORESTRY

AGRICULTURE

LANDSCAPE CONSTRUCTION

THERE ARE A LOT OF WEEDS

JUST FACE IT

CAN WE HAND PICK THEM ALL?



OR COULD WE DREAM OF A BETTER WAY?



ROBOT SUIT – HYDRAULIC ASSISTED HAND WEEDING!





BEFORE WE DREAM TOO FAR
INTO THE FUTURE – HOW
ABOUT LOOKING TO OUR PAST?

100 YEARS OF BIG AG AND
FORESTRY CHANGED THE
LANDSCAPE OF NORTH AMERICA
ARE WE STILL USING ANY OF THESE
TOOLS?

FORESTRY



STEAM POWER AND PEOPLE TORE APART OUR NATURAL WORLD 100 YEARS AGO



COULD THE SAME TECHNOLOGY BE
USED TO PUT IT BACK TOGETHER?

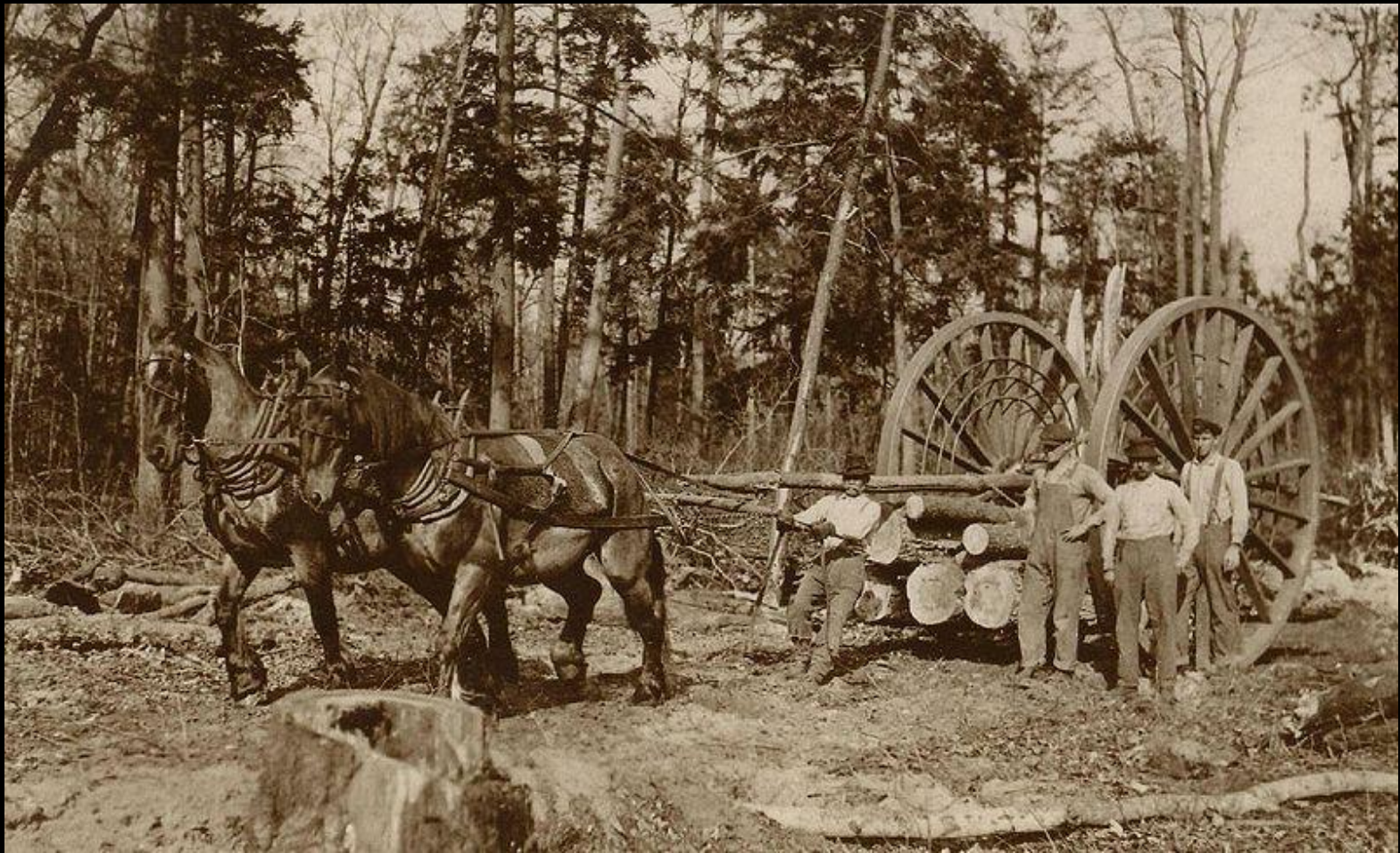
NO HERBICIDE – ONLY DYNAMITE



SAME PLAYERS – DIFFERENT TIME



PEOPLE HAVE BEEN REPLACED BY MACHINES IN NEARLY ALL PHASES OF MODERN LOGGING



HARVESTERS CUT AND BUCK

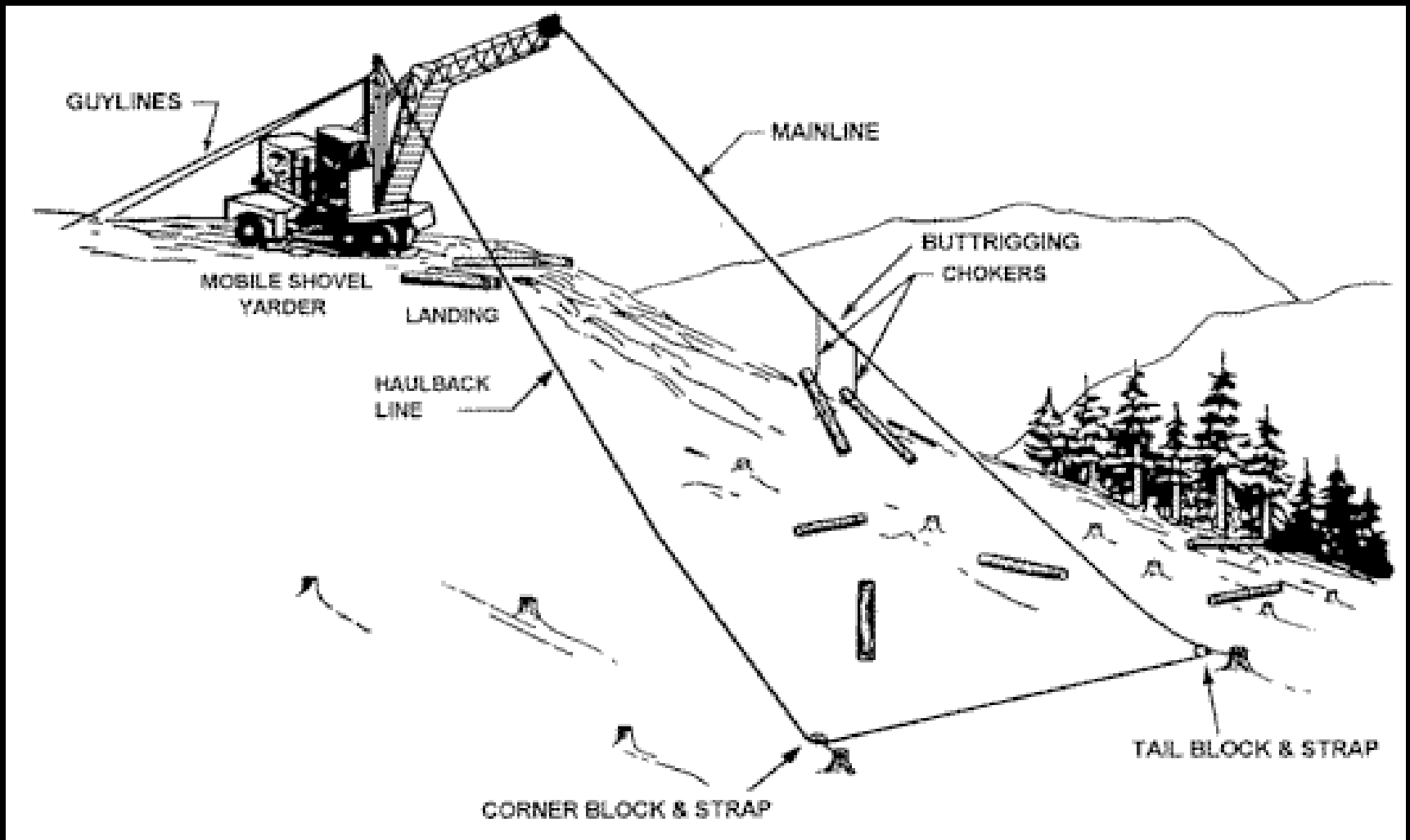




YARDERS SKID AND LOAD



ELABORATE CABLE SYSTEMS USED FOR LOG EXTRACTION



HOT AIR BALLOONS!

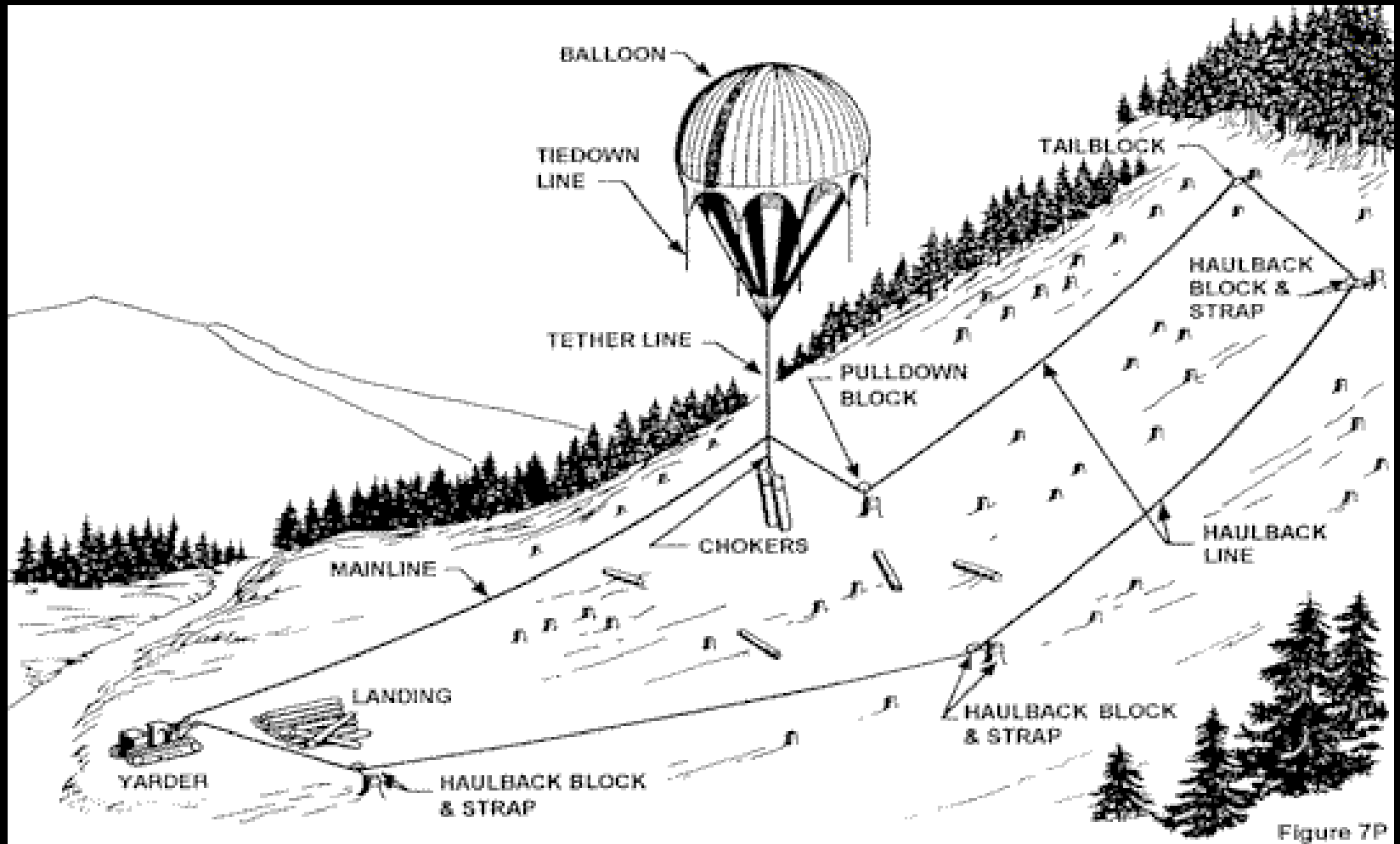


Figure 7P

MULCHING TRACTORS CLEAN-UP SLASH BEFORE PLANTING



TECHNOLOGY IS TRICKLING DOWN

MANY OF THESE TOOLS CAN BE
TWEAKED FOR WEED MANAGEMENT

SMALLER SKIDSTEER MULCHERS NOW AVAILABLE



MINI-MULCHING HEAD



TREE TO MULCH – IN PLACE - < 5 MINUTES



WIDELY USED FOR GORSE/BROOM REMOVAL IN AUS/NZ



GORSE FIELD - BEFORE



GORSE FIELD – AFTER 2 HOURS



STEEP SLOPES ARE ALWAYS A PROBLEM



MODERN MACHINES CAN WORK ON UP TO 100% SLOPES



SPIDER (WALKING) EXCAVATORS ARE COMMON EVERYWHERE EXCEPT THE UNITED STATES



CAN BE USED FOR VEGETATION MANAGEMENT



MULCHING HEAD FOR SCOTCH BROOM ON SLOPES



MATERIAL HANDLING



THERE HAS TO BE A BETTER WAY



CONVEYOR BELTS AT CONSTRUCTION SITES



MOBILE INDUSTRIAL SYSTEMS FOR MINES – PROCESSING PLANTS



NEW LIGHTWEIGHT MOBILE SYSTEMS FOR WILDLAND WORK



**MANY CONVEYOR SYSTEMS CAN
NOW EVEN BE RENTED TO REDUCE
PRICEPOINT EVEN FURTHER**

CAN WE DREAM OF GOING FURTHER?



WHAT THE?



UAV'S NOT JUST FOR THE MILITARY ANYMORE



YAMAHA'S RMAX RC HELICOPTER AGRICULTURAL SPRAYER



OVER 1,600 CURRENTLY USED IN JAPAN/KOREA PEST CONTROL TODAY



PAYLOAD EQUIVELANT TO AN ATV SPRAYER AND CAN GO ANYWHERE



MORE MODEST OPTIONS AVAILABLE



CURRENT US COMERCIAL PRODUCTS CURRENTLY LIMITED TO AERIAL PHOTOGRAPHY



PRECISION AG USE FOR AERIAL PHOTOGRAPHY



SO I WOULD LIKE TO
ENCOURAGE YOU TO DREAM A
LITTLE

HALF-BAKED IDEAS CONTINUE TO
CHANGE THE WORLD

ONCE THESE WERE SOMEONE'S CRAZY IDEA



WE NEED MORE DREAMERS

**ENGINEERS, ARTISTS, SCIENTISTS,
BUSINESS PEOPLE TO DEVELOP AN
ECONOMY FOR WEED WORK**

WITH MORE COOL TOOLS, WE
CREATE MORE COOL JOBS, AND
THEN WE GET WAY MORE DONE!

AND IF YOU CAN'T CREATE –
BELIEVE!

AGENCY STAFF, MANAGERS,
REGULATORS, BOARD MEMBERS

WE NEED YOUR SUPPORT TO TEST
NEW IDEAS – OTHERWISE WE ARE
JUST CRAZIES WITH IDEAS

AND ONLY THEN WE CAN KEEP GOING
HIGHER AND HIGHER

