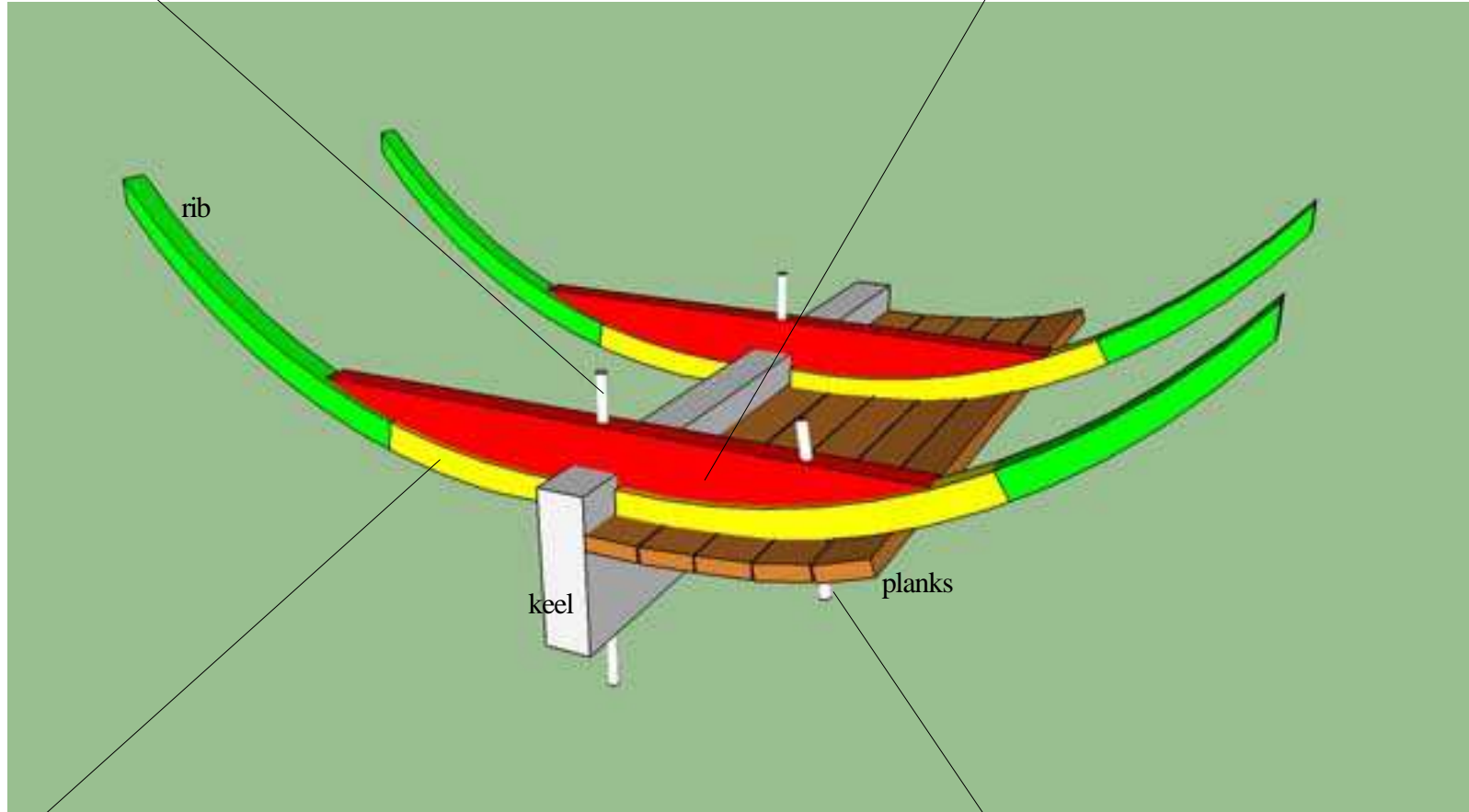*Documentation*
of main hull restoration
exchange of wooden parts and caulking
of the boat Papoose
done in 2009
boatyard Venice, Italy

principles of the Papoose main hull restoration

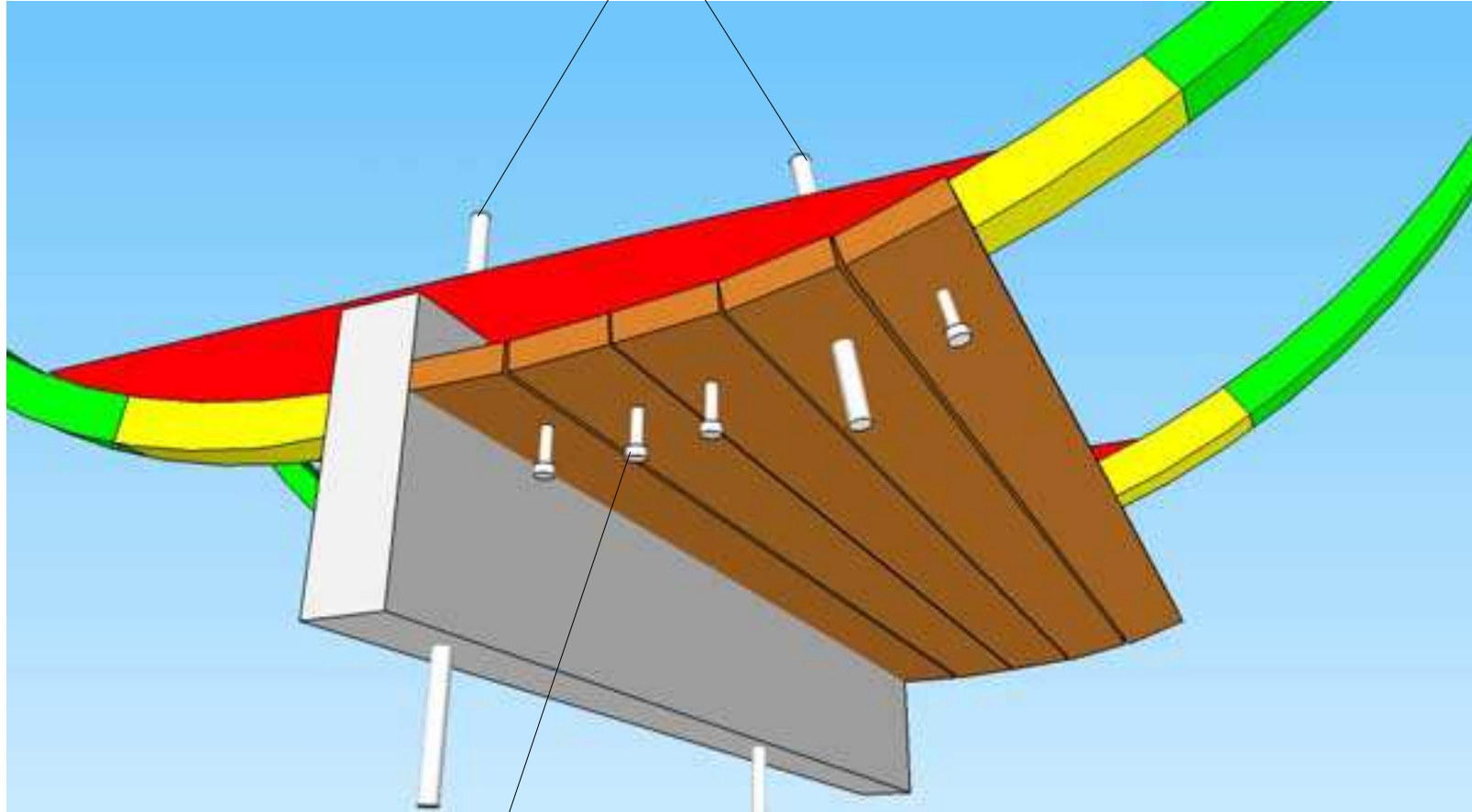fasten with a long bolt trough floor, rib and keel

(red parts) cut out rot floor pieces and replace with new ones

rib

keel

planks

(yellow parts) cut out rot ribs and replace it with new ones

fasten with a long bolt trough floor, rib and plank

fasten with bolts

fasten with screws through planks and rib

stabilize garboard (very first plank)

stabilize planks in bilge area

remove interior totally

cut out rot pieces

make a model

another model

buy a tree of oak wood, cut in 2 inch (5 cm) boards

cut out a new floor

some floor pieces

some ribs with the specific roundings

compare new and old

compare new and old

first three new ribs, two of them sistered

new rib with sister aside

first floor (triangle piece) sitting on new ribs

cutting a rib to fit

fasten with bolts through the keel

sample with three bolts, middle through the keel

inserting a bolt trough the keel from down to up

fastening the bolt, one man outside, one man inside

almost done

large new board under the rudder fittings

in total 100 new wood parts built in

add 20 round sister ribs
aside old broken ribs
around the waterline

using special prepared,
bendable oak wood
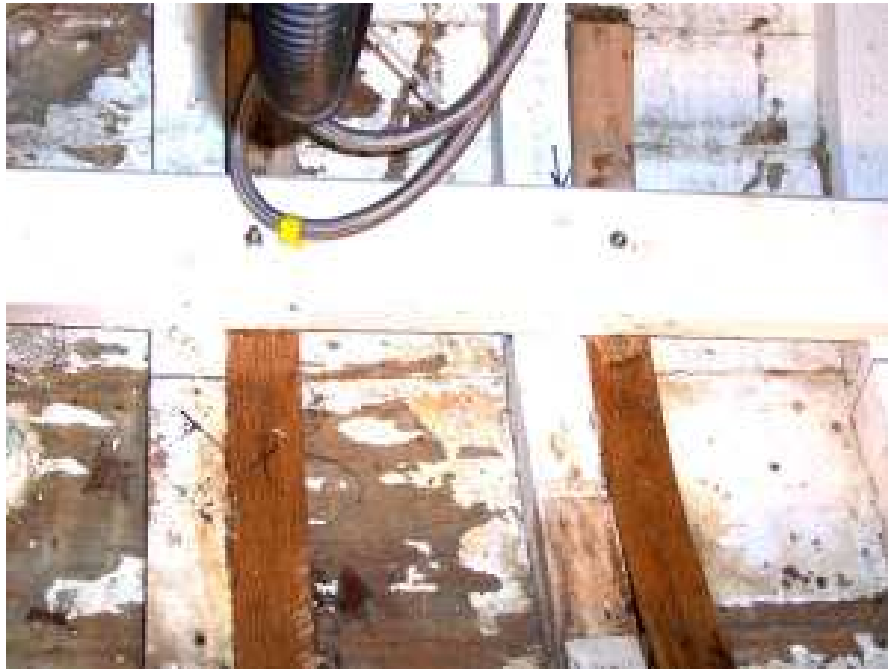*(comp-wood)*

bending a rib

tools used

prepare 20 ribs

new rib sistering the old broken rib

fasten with screws fom outside

detail

*caulking
between the ribs
and breaks*

80 year old Stefano caulking

professional caulking tools

all breaks between planks caulked

caulking sample

drive into cotton

prepare a small wood stripe

drive into wood stripe in larger break

drive into cotton between keel and garboard

a larger break

caulked with cotton and small wood pieces

breaks caulked under the waterline

taping after caulking

sealing with poleuretan rubber

yippee,
all done ...