



STRAIGHT AHEAD

GROUND STABILISATION

IMPULSE COMPACTION

HYBRID FOUNDATION »SYSTEM TERRA-MIX«TM

Hybrid foundation »System TERRA-MIX«TM

THE HYBRID FOUNDATION »SYSTEM TERRA-MIX« COMBINES THE ADVANTAGES OF IMPULSE COMPACTION AND THOSE OF A REPLACEMENT BASE LAYER. (FURTHER DETAILS ON THE RIGHT)

STRUCTURE OF THE SYSTEM:

- + Impulse compaction
- + Replacement base layer

= Hybrid foundation »System TERRA-MIX«TM

IN TOTAL THIS GIVES YOU A VERY GOOD AND ECONOMIC OVERALL SOLUTION.
HERE SOME OF THE ADVANTAGES OF THIS SYSTEM:

Building cost savings

The Hybrid foundation „System TERRA-MIX“ enables mostly total building costs savings through the optimisation of the mass balance, the statics and the base plate of the construction.

Construction time savings

An impulse compaction as well as establishing a replacement base layer can normally be carried out much faster than a foundation using any other foundation method.

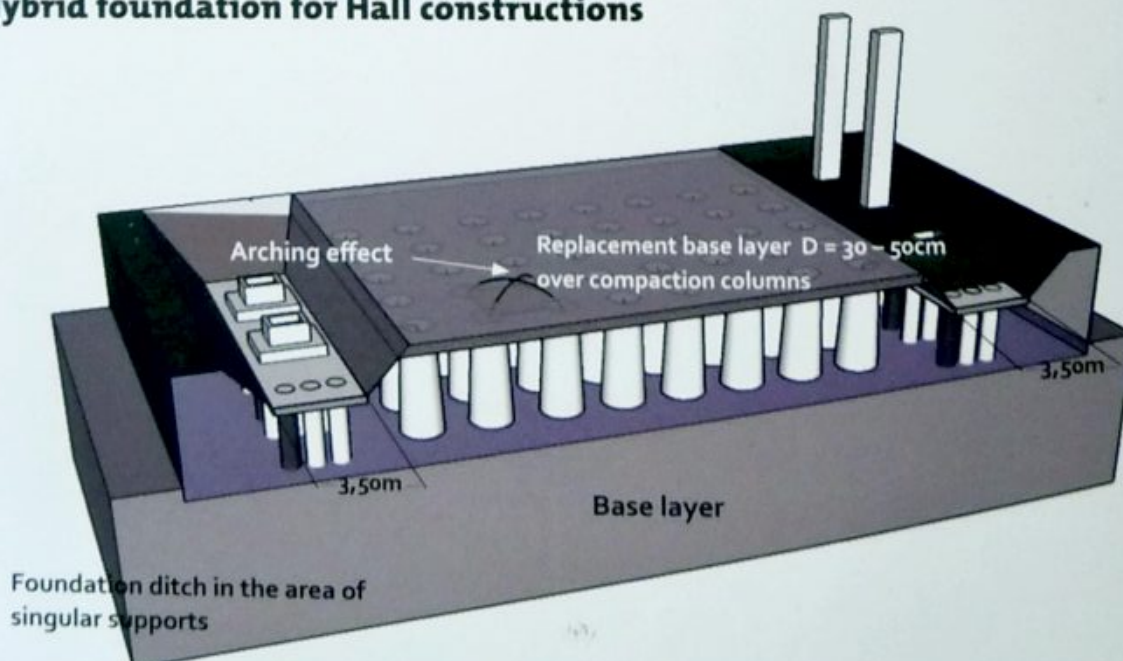
Gentle use of resources

Since normally no or only a minimal exchange of material is necessary, this system constitutes an important contribution to an ecological and sustainable way of building. Every compactable ground can be compacted by means of impulse compaction and a replacement base layer can be established using almost any of the available building materials at the site.

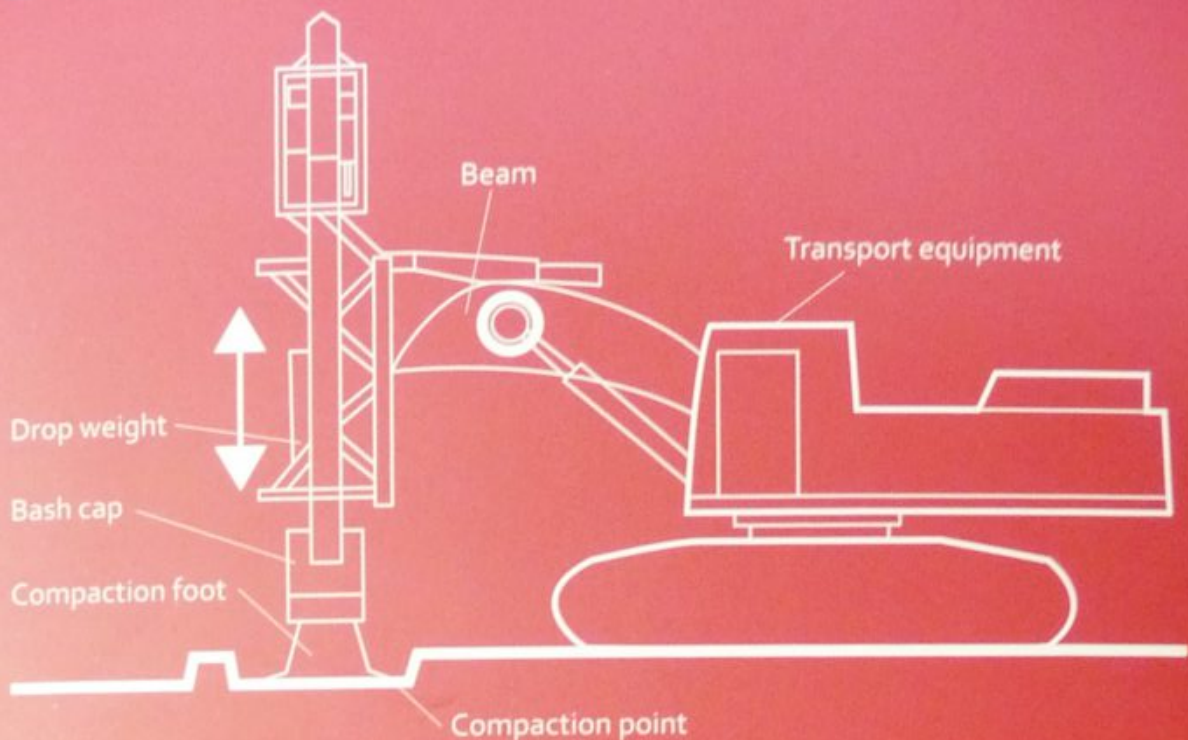
Arching effect

The loads replacement absorbed very well within the base layer and are distributed over the compaction columns by means of an arching effect.

Hybrid foundation for Hall constructions



Impulse compaction



THE MOST IMPORTANT ADVANTAGES, RESPECTIVELY CLIENT BENEFITS:

Building cost savings

Since this system normally needs no or only little additional material, the use of Impulse Compaction can save building costs. Due to the high quality of our compaction system, in many cases, in the dimensioning of the base plate or through optimisations of the statics, savings can be achieved. Hence the overall construction costs will be reduced.

Construction time savings

By means of thorough preparations using Impulse Compaction the building operation can in most cases be carried out faster than with other foundation methods, since this system is very efficient.

Gentle use of resources

Normally no or only a small material exchange is necessary. Hence this system constitutes a valuable contribution to an ecological and sustainable way of building.

Documentation

You will receive complete documentation including all relevant data of every singular compaction point. E.g. GPS co-ordinates, Date, Time, applied power, number of impulses, settling per impulse etc. With this data our work can be checked or reproduced by you or the responsible geo-engineer during or after our building activities.

Ground stabilisation

THIS BUILDING ALTERNATIVE BRINGS YOU MANY ADVANTAGES. SOME OF THESE WE WOULD LIKE TO HIGHLIGHT HERE:

Building cost savings

With a positive mass balance the available material is used to create the Replacement base layer (ETS / RBL). Thereby and by achieving a higher deformation mode it is to be assumed that by using a RBL savings in the overall building costs can be achieved.

Construction time savings

Constructing a replacement base layer can normally be executed much faster than exchanging the ground material or working in geo-textiles.

Gentle use of resources

Since normally no or only a small material exchange is necessary, this system constitutes a valuable contribution to an ecological and sustainable way of building.

The replacement layer can be constructed using almost any building material to be found on site. E.g. : clay, silt, sand, gravel, building rubble, cinder, broken asphalt, ...

Guarantee of quality

We guarantee a defined quality regarding bearing capacity, planarity und frost resistance of the replacement base layer we establish.



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We are a dynamic, innovative and independent specialized civil engineering company with its headquarter in western Styria, Austria.

Our team constantly strives to fulfill the concerns of our customers, and with our year long experience in the areas of ground stabilisation, impulse compaction, road renovation and guard rail construction we are active all over Europe with great success.

Further information:

www.terra-mix.com

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ROAD

RENOVATION »SYSTEM TERRA-MIX™«



WWW.TERRA-MIX.COM

Road renovation »System TERRA-MIX™«

In Austria and South-east Europe the road renovation system „System TERRA-MIX“ is a very successful way of renovating ruined streets very fast, economically and with very high quality.

In this system a new high-grade carrier layer, which is frost resistant and free of crevices, is produced out of the ruined carrier layer, being interspersed with fine particles, and asphalt through the addition of a road recycling binder and water.

For the road renovation system „System TERRA-MIX“ a patent has been applied for with the European Patent Office - Nr.A926/2008.



Advantages

_ A road construction, which has been stabilized with a binder, can take up to 3 times higher loads than a conventional road construction.

_ Such a construction can no longer, after years of traffic, be interspersed with fine particles, since the carrier layer has been fixed with a binder. Therefore there is also no longer any need for a fleece.

_ This construction is more frost resistant than without a binder, since inside such a fixed body no collection of water can form.

_ It's load capacity will increase year by year, whereas a conventional construction will deteriorate with time.

_ Hence, after decades of surface wear, only the surface layer needs to be repaired. The underlying, stabilized carrier layer remains.

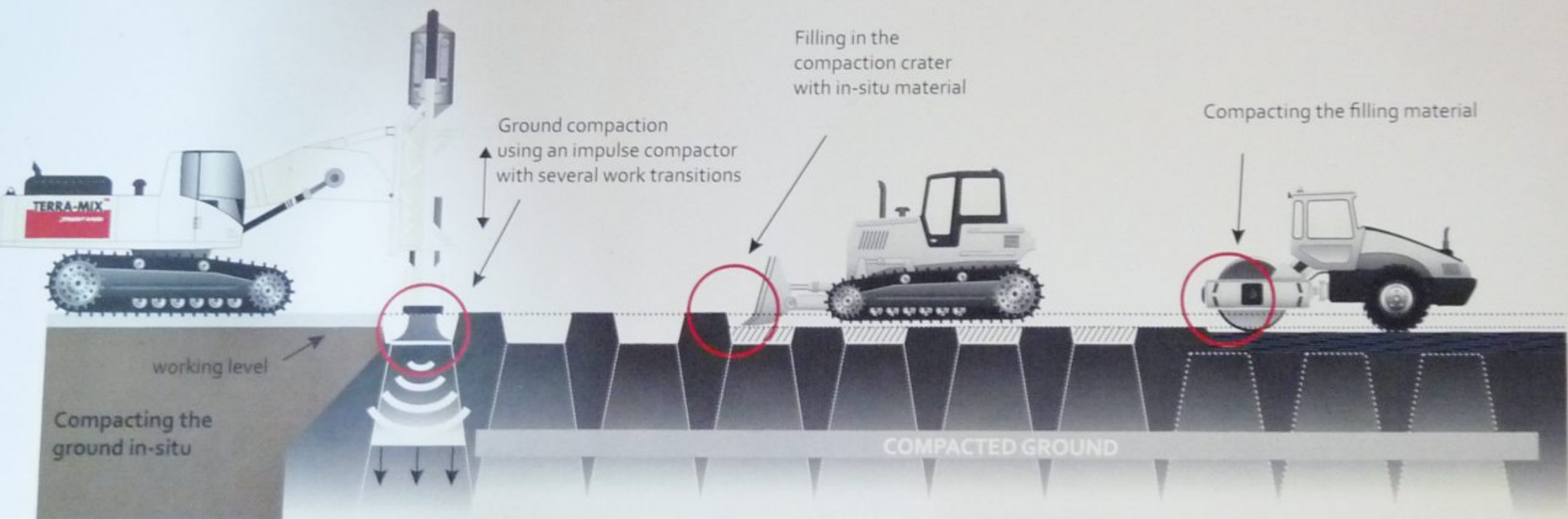
_ The present asphalt can be cut and mixed in with the carrier layer as valuable building material and does not need to be disposed of at high costs.

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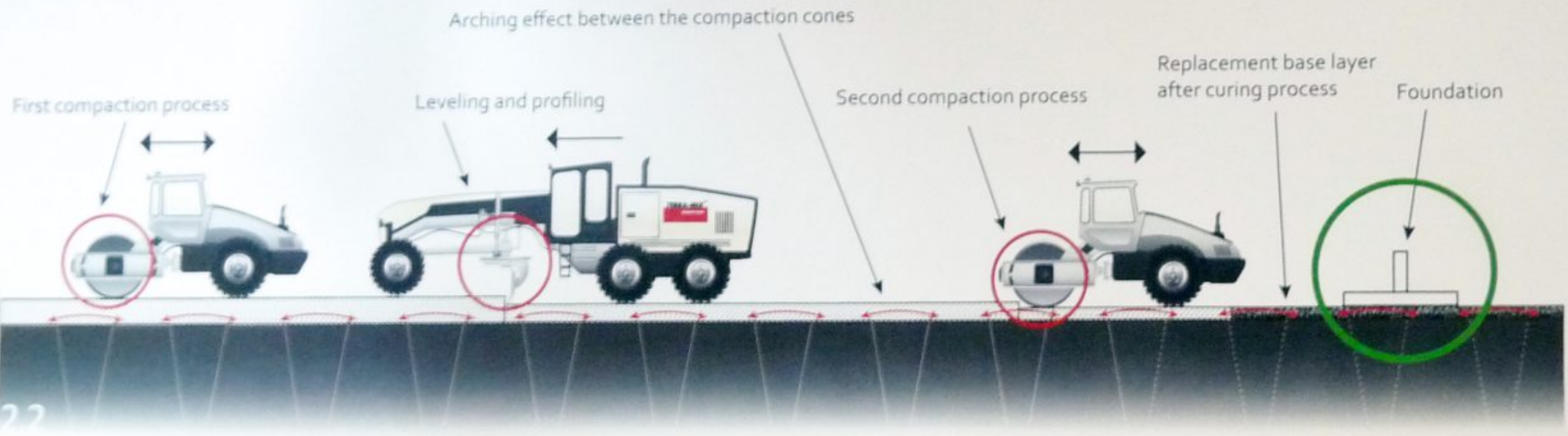
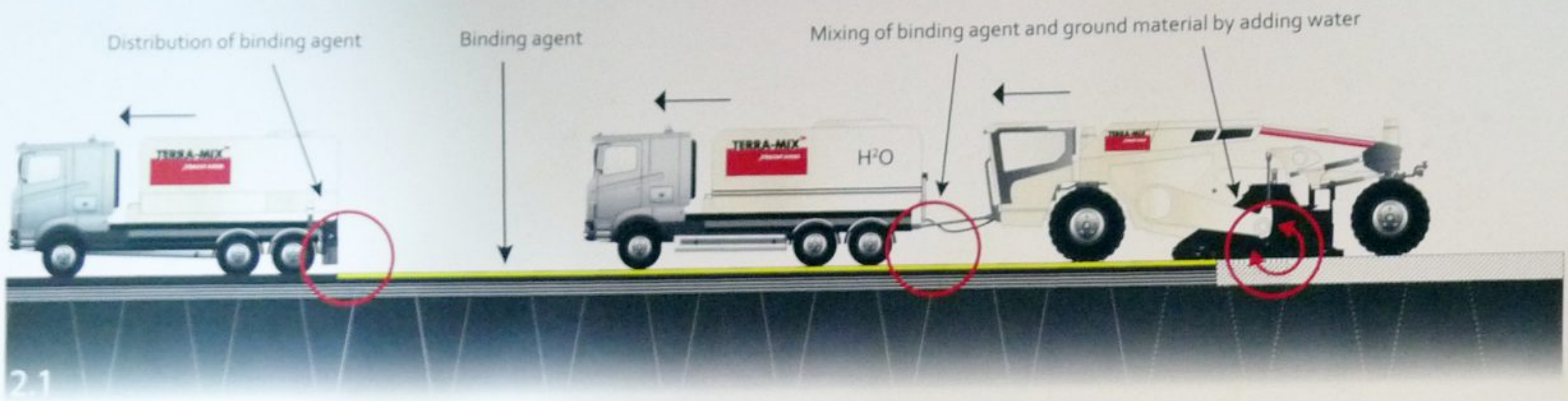
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Hybrid Foundation »TERRA-MIX«™

1. Impulse compaction

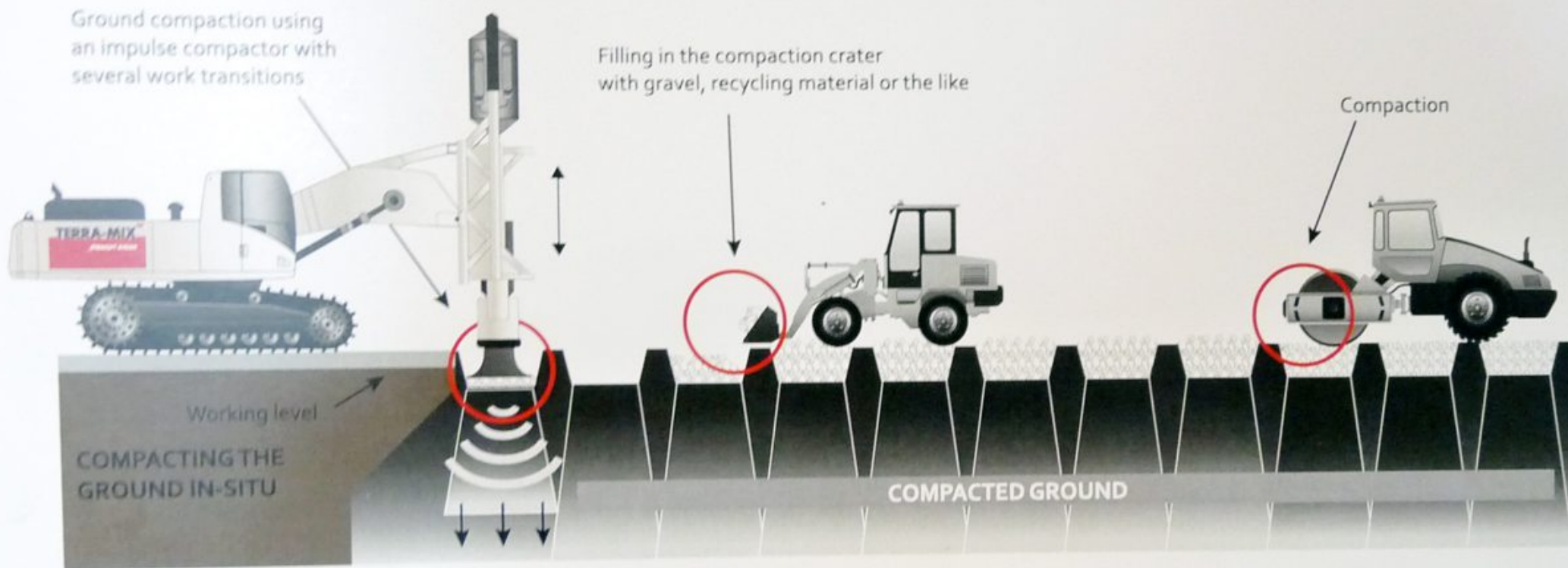


2. Replacement base layer



IMPULSE COMPACTION + REPLACEMENT BASE LAYER = HYBRID FOUNDATION

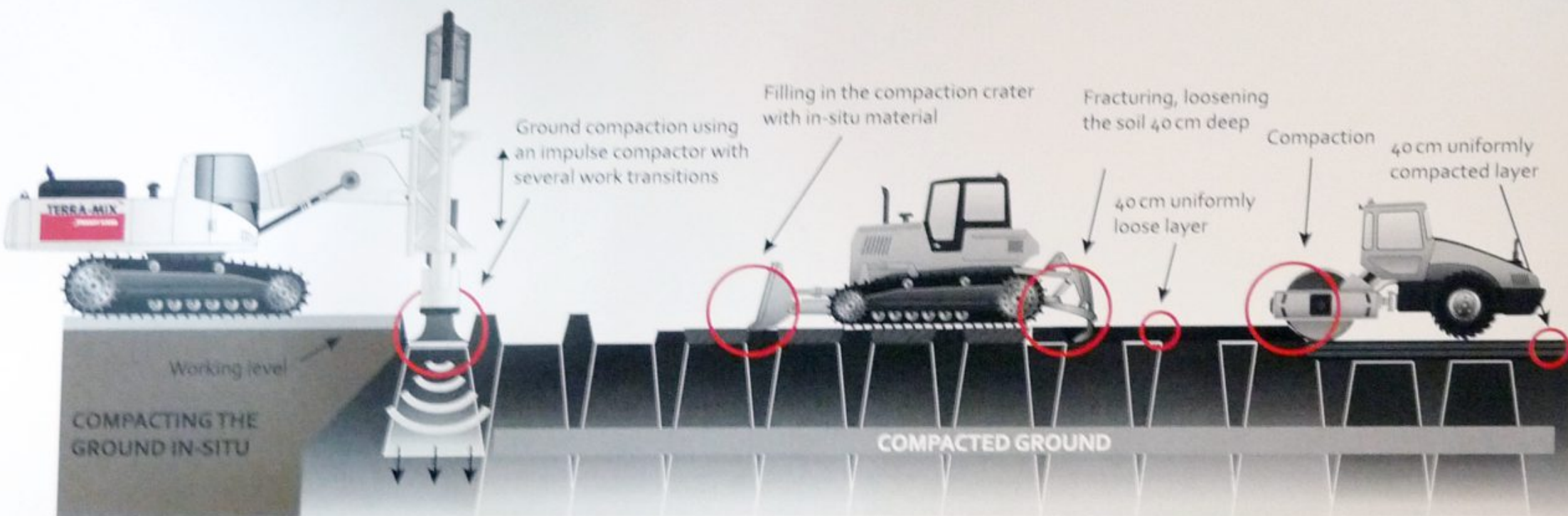
IMPULSE COMPACTION USING EXTRANEANEOUS MATERIAL



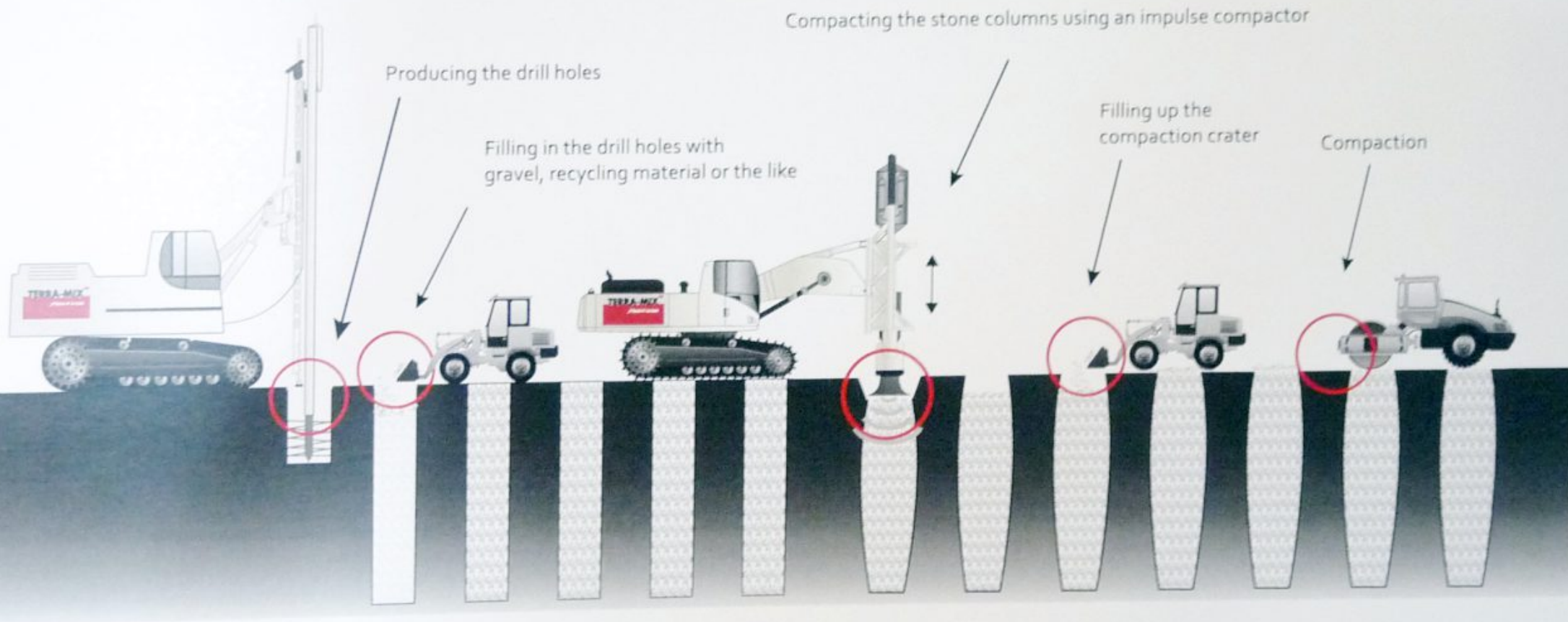
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IMPULSE COMPACTION WITHOUT EXTRANEEOUS MATERIAL



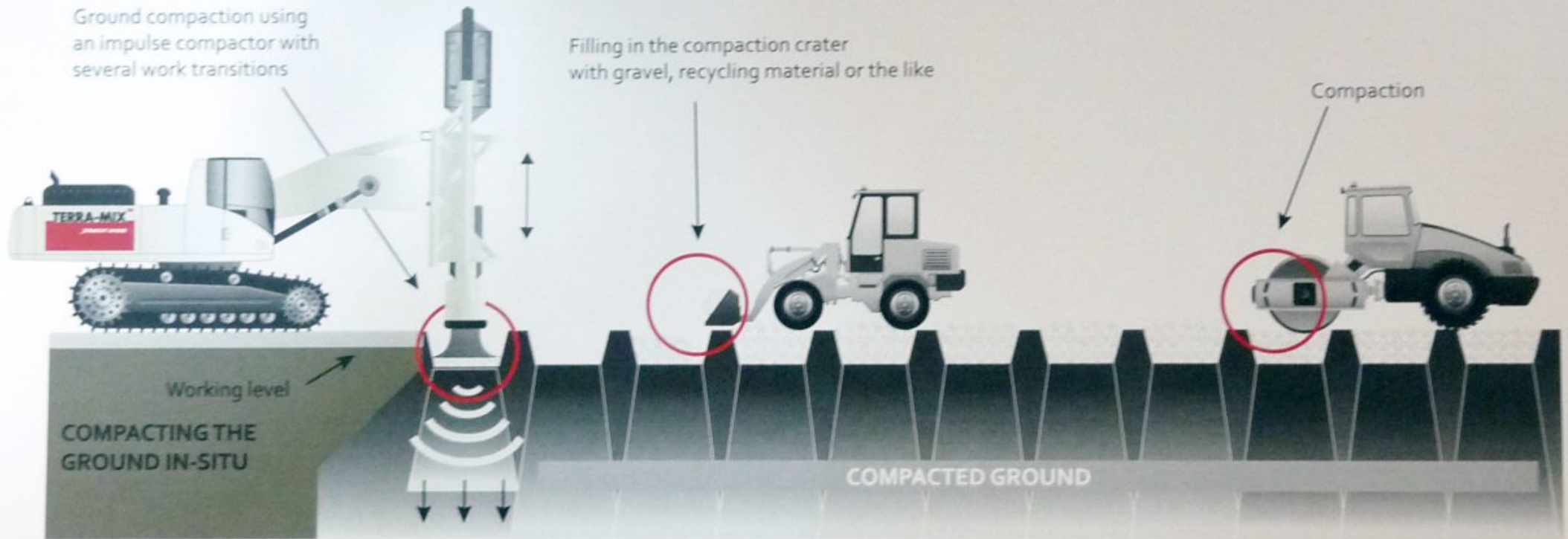
BUILDING STONE COLUMNS USING AN IMPULSE COMPACTOR (incl. pre-drilling)



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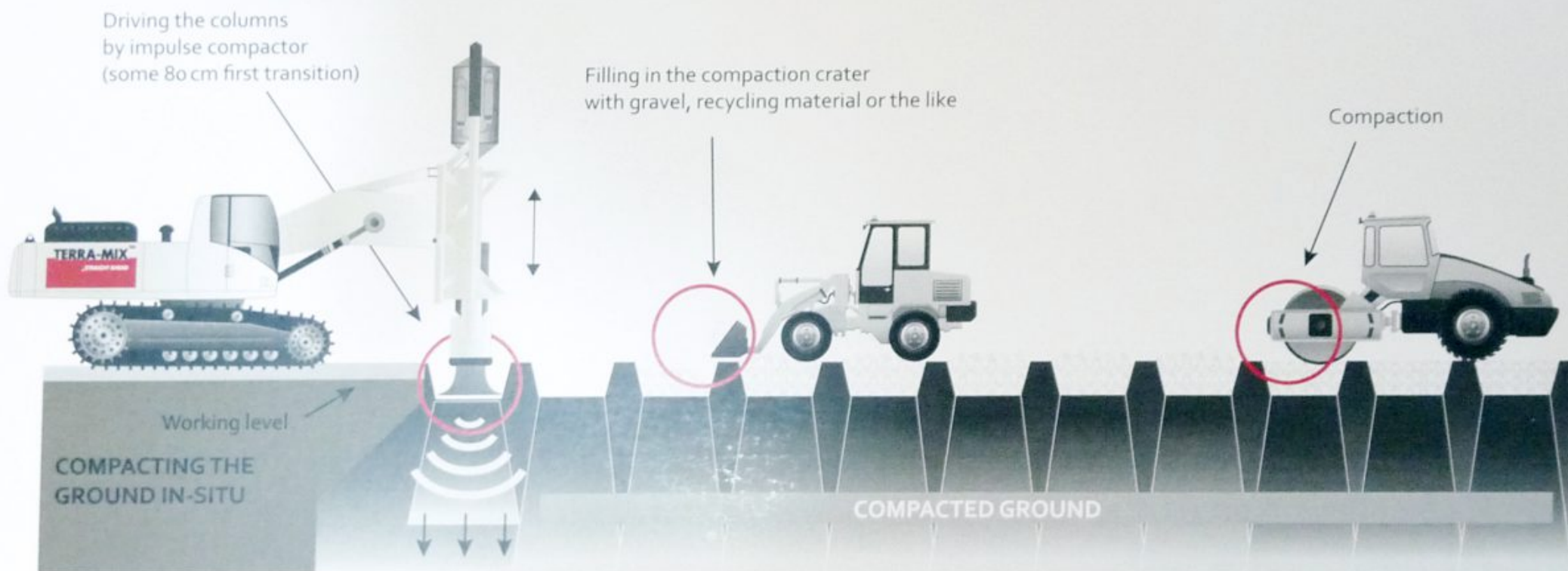
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IMPULSE COMPACTION USING EXTRANEANEOUS MATERIAL



INSTALLATING THE STONE COLUMNS USING AN IMPULS COMPACTOR

1. work transition



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