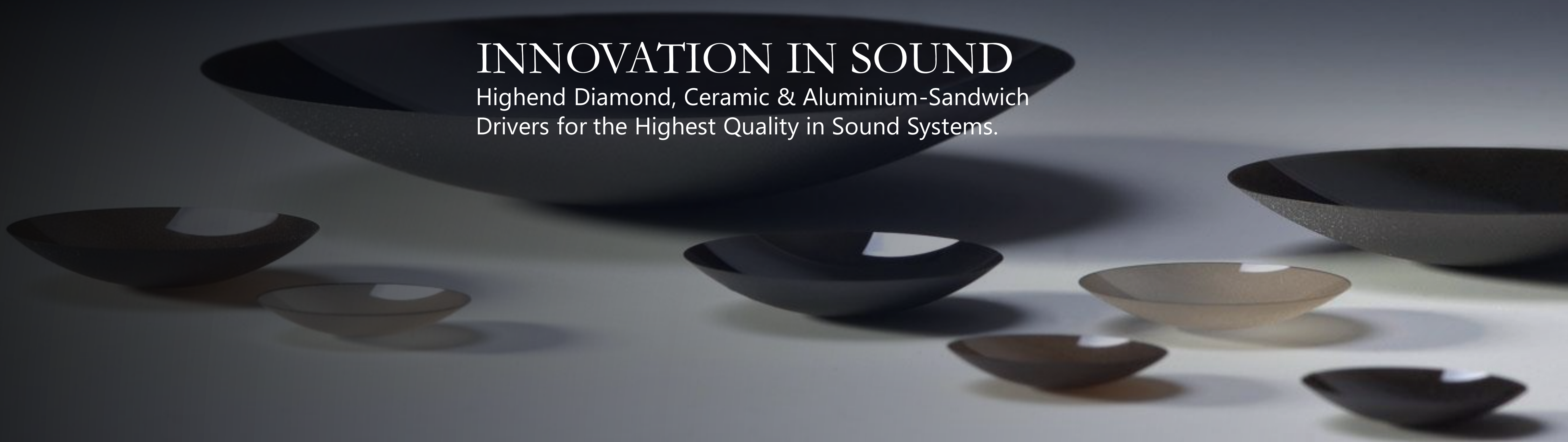


accuton[®]
by Thiel & Partner

INNOVATION IN SOUND

Highend Diamond, Ceramic & Aluminium-Sandwich
Drivers for the Highest Quality in Sound Systems.



COMPANY HISTORY



Thiel GmbH: founded by Bernhard Thiel
Location: Homburg
Employees: 02
Products: Tweeters & Midranges
Turnover Development: 0 – €160.000

1994-2014



Thiel & Partner GmbH: Dirk Vaehsen becomes
Partner, Establishment of QM-System ISO 9001
Location: Bexbach (Production) Pulheim (Sales)
Employees: 17 - 20
Products: Tweeters, Midranges & Woofers
Turnover Development: €1.850.000 – €2.850.000

1986-1994



Thiel & Partner GmbH: Adrian Bankewitz CEO
Location: Bexbach (Production) Pulheim (Sales)
Employees: 02 - 17
Products: Tweeters, Midranges & Woofers
Turnover Development: €160.000 – €1.850.000

2014 -

COMPANY PHILOSOPHY

”We strive to build the most innovative & valuable speaker drivers, helping our customers to the utmost success in their market segment.

To this end, we work in partnership and on a long term basis with the best suppliers & employees who are committed to our quality standard.“

OUR PRODUCTS

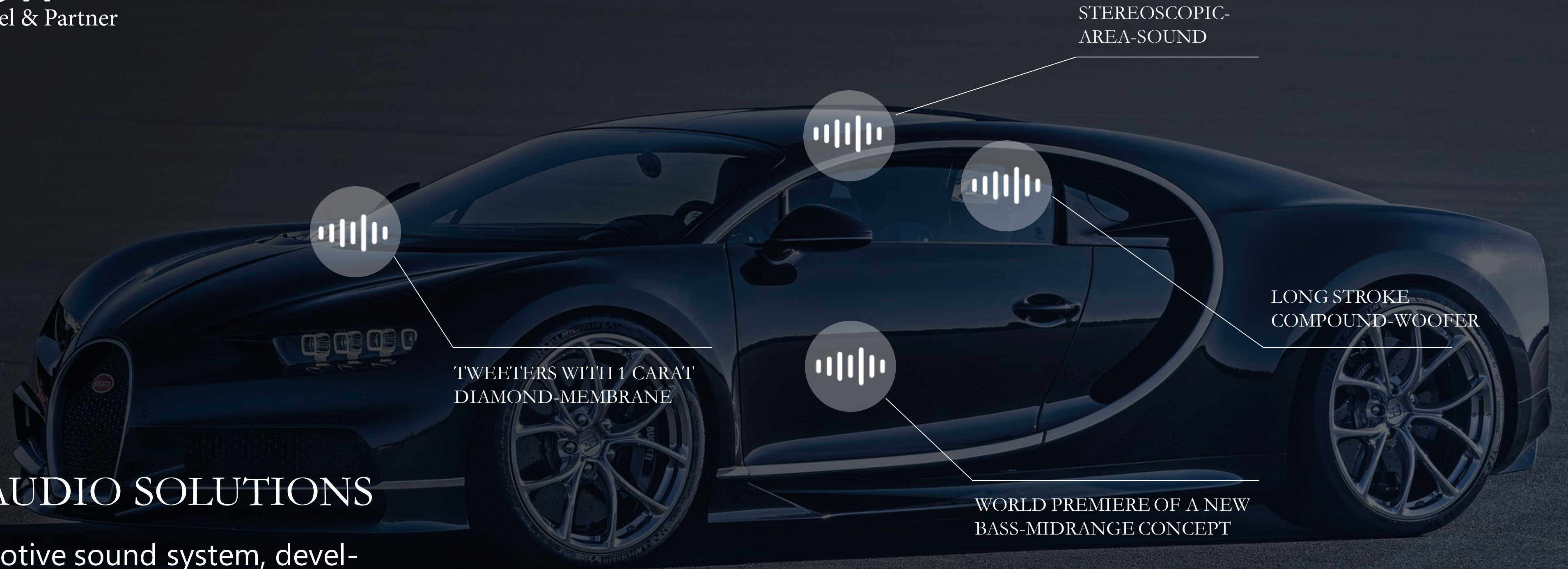
DRIVER DEVELOPMENT
Portfolio development & custom-made products

APPLICATION DEVELOPMENT
Integration, cabinet & crossover design

Loudspeakers with hard cones made of ceramic & diamond

PRODUCTION





STEREOSCOPIC-
AREA-SOUND

LONG STROKE
COMPOUND-WOOFER

TWEETERS WITH 1 CARAT
DIAMOND-MEMBRANE

WORLD PREMIERE OF A NEW
BASS-MIDRANGE CONCEPT

AUTOMOTIVE AUDIO SOLUTIONS

Accutons unique automotive sound system, developed for one of the most exclusive sportscars in the world.

9 ceramic and diamond drivers, mostly hidden behind the Bugatti Chiron's exclusive leather interior trim, come together to produce a crystal-clear stereoscopic music experience.

CUSTOM AUDIO SOLUTIONS



MARINE AUDIO SOLUTIONS

Since 2017, Thiel & Partner have been developing and producing drivers specialized for marine implementation.



EACH DRIVER IS TESTED FOR SALTWATER AND MECHANICAL SHOCK RESISTANCE



GOING BEYOND HIGHEST SOUND QUALITY WITH TECHNOLOGIES FOR INVISIBLE SOUND SYSTEMS

CUSTOM AUDIO SOLUTIONS



DESIGN PROCESS

OUR DESIGN PROCESS FOLLOWS TWO BASIC RULES:

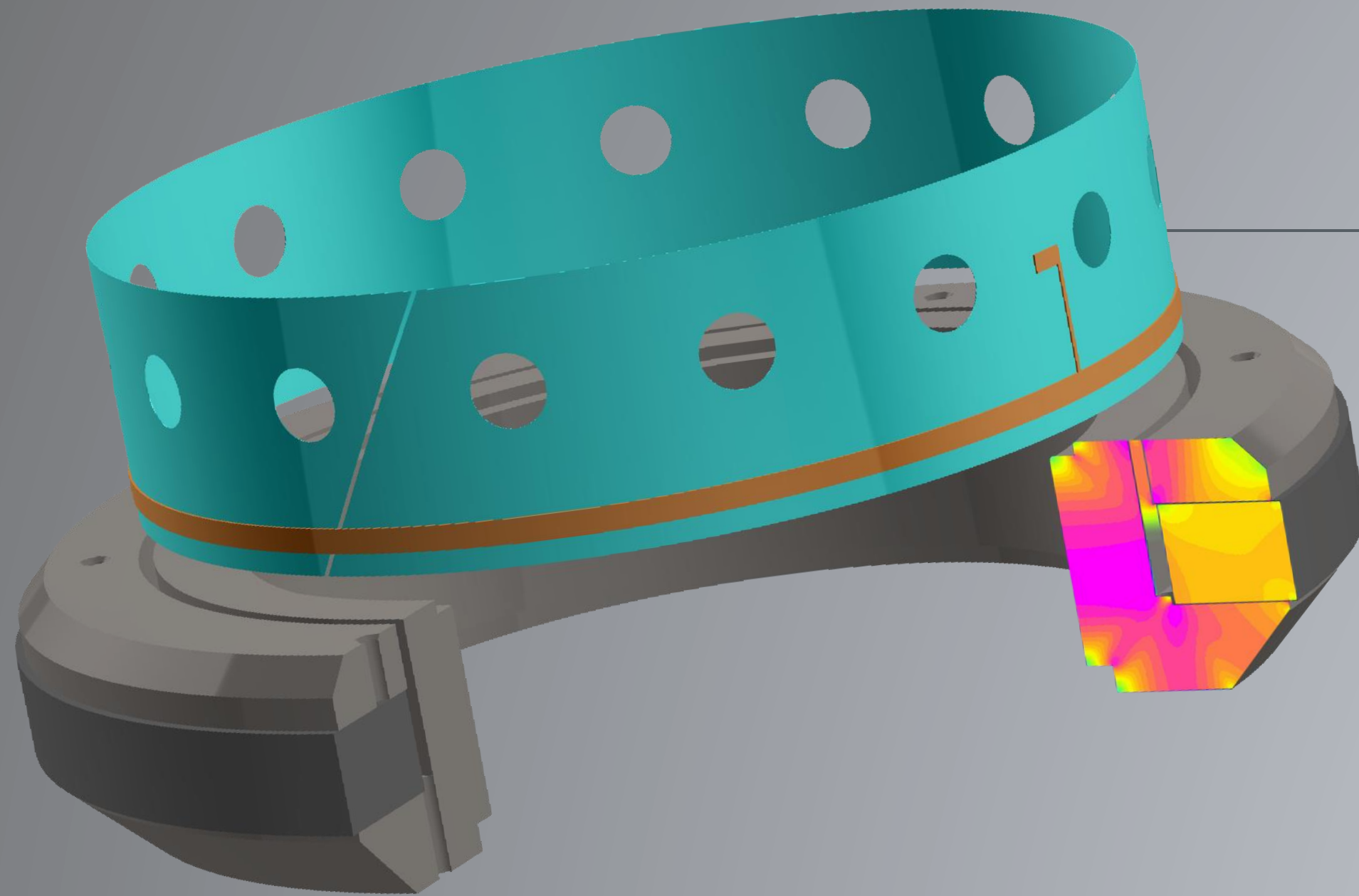
The music signal shall be exactly converted into acceleration of the voice coil

Acceleration of the voice coil shall be exactly converted into the soundwave

MAGNETIC FIELD TECHNOLOGY

CONE TECHNOLOGY

APPLICATION



TITANIUM VOICE COIL FORMER

FEM MAGNETIC FIELD SIMULATION

Illustration 01: Magnetic Field Technology

MAGNETIC FIELD TECHNOLOGY:
Linear driving force and lowest dynamic resistance

APPLICATION

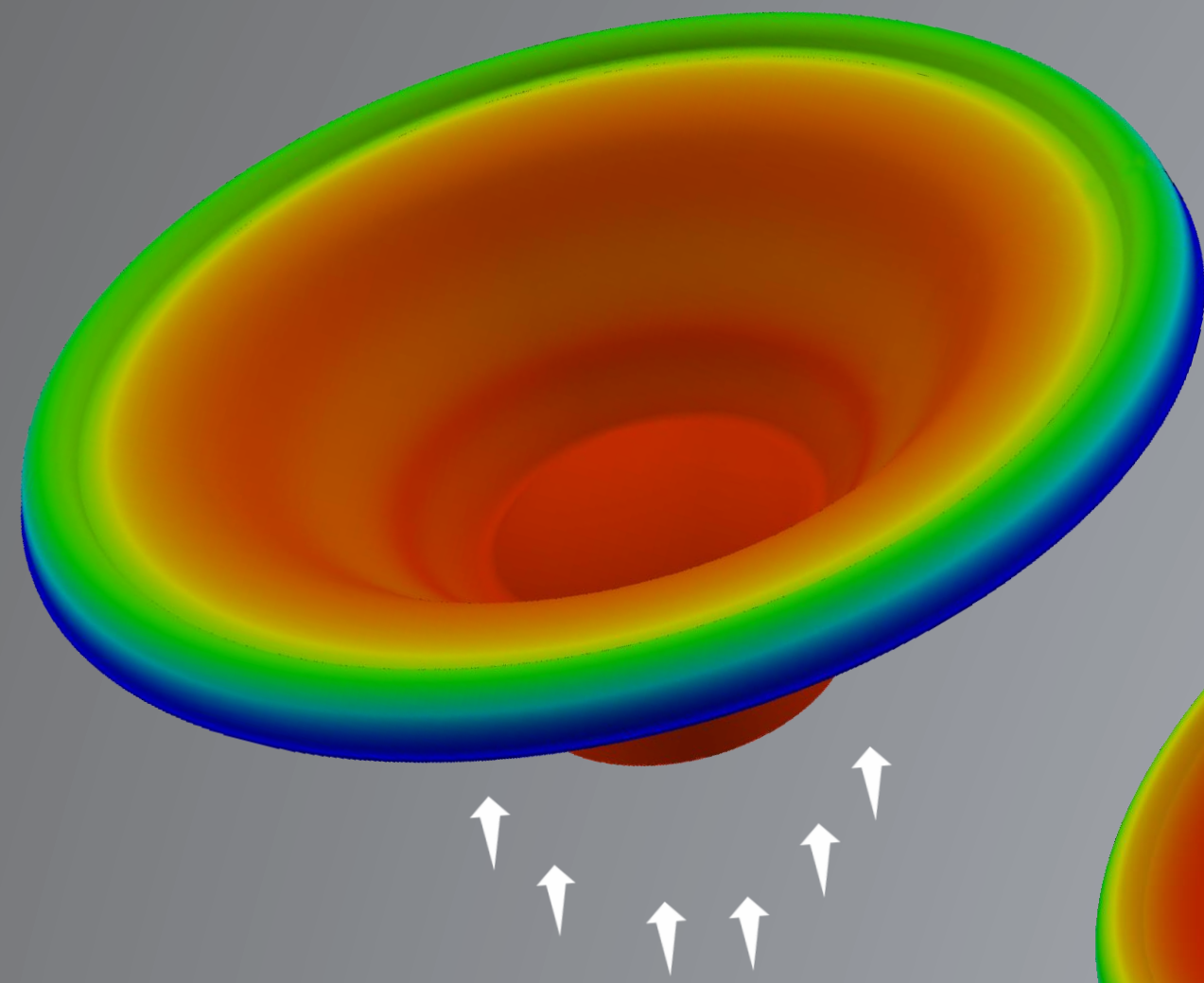


Illustration 02: Soft Navi-Membrane

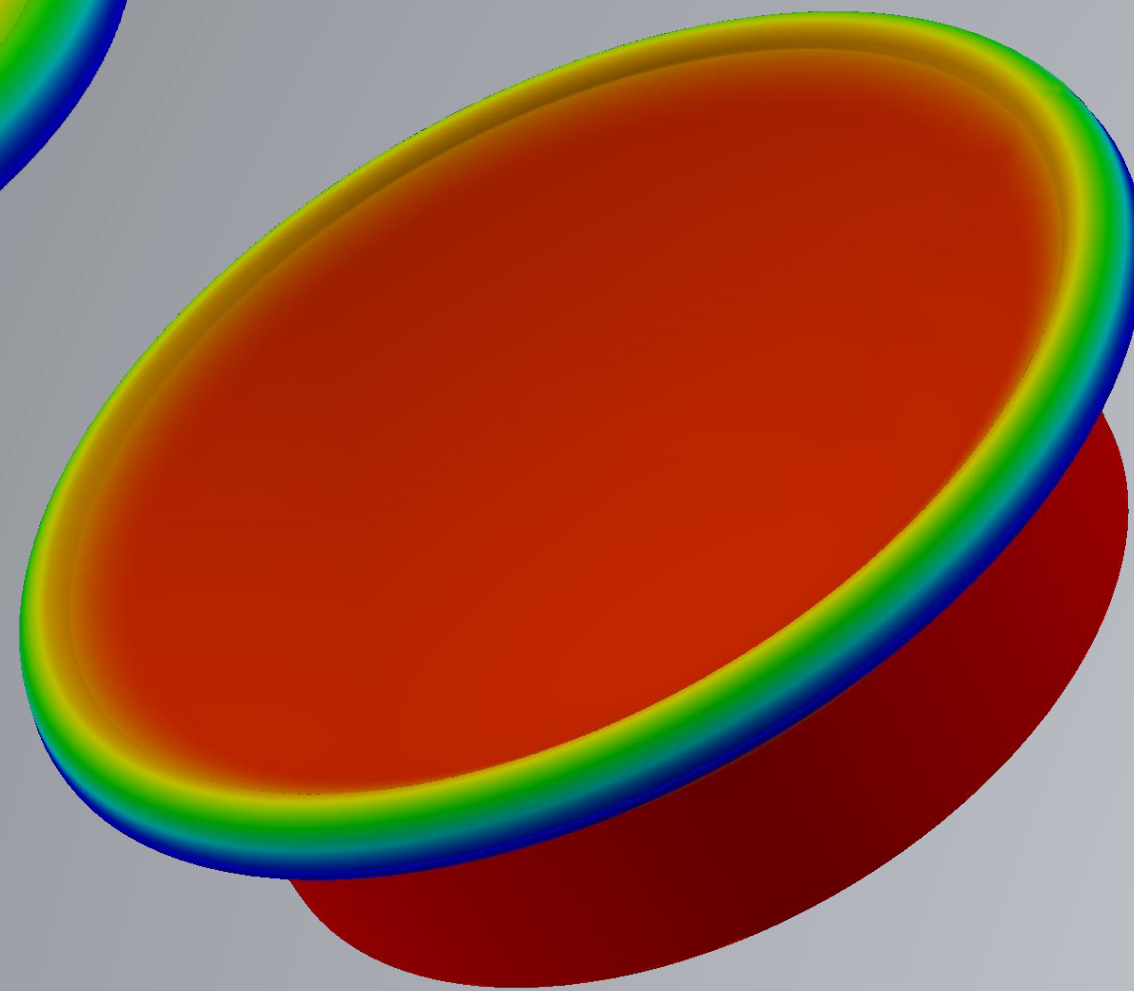
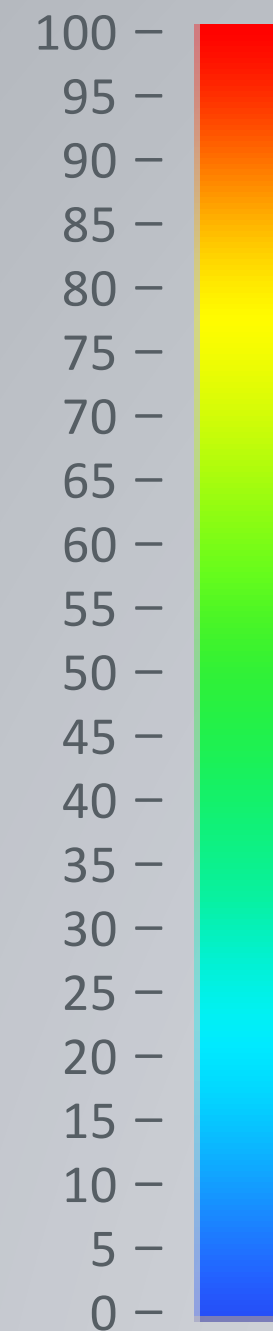


Illustration 03: Hard Calotte Membrane

Active Surface in %



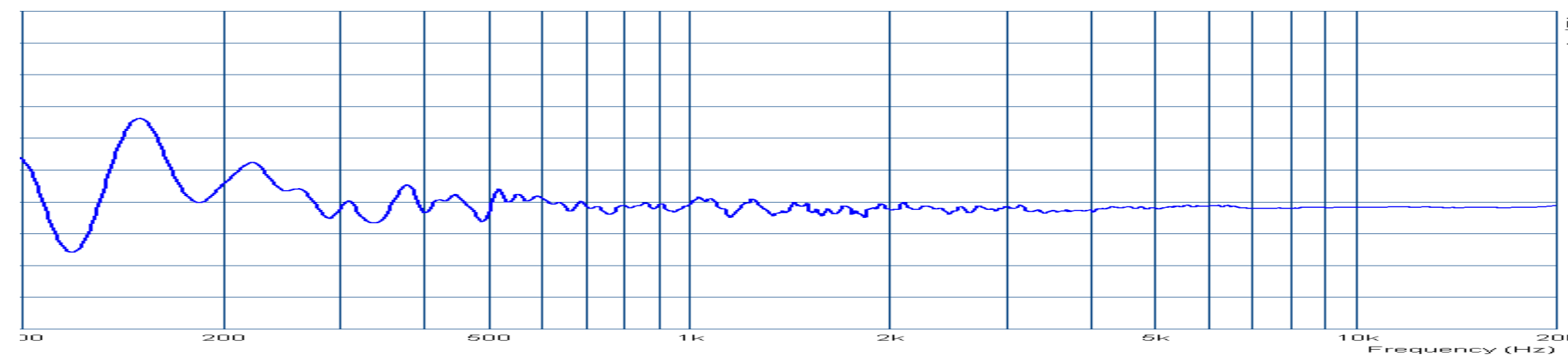
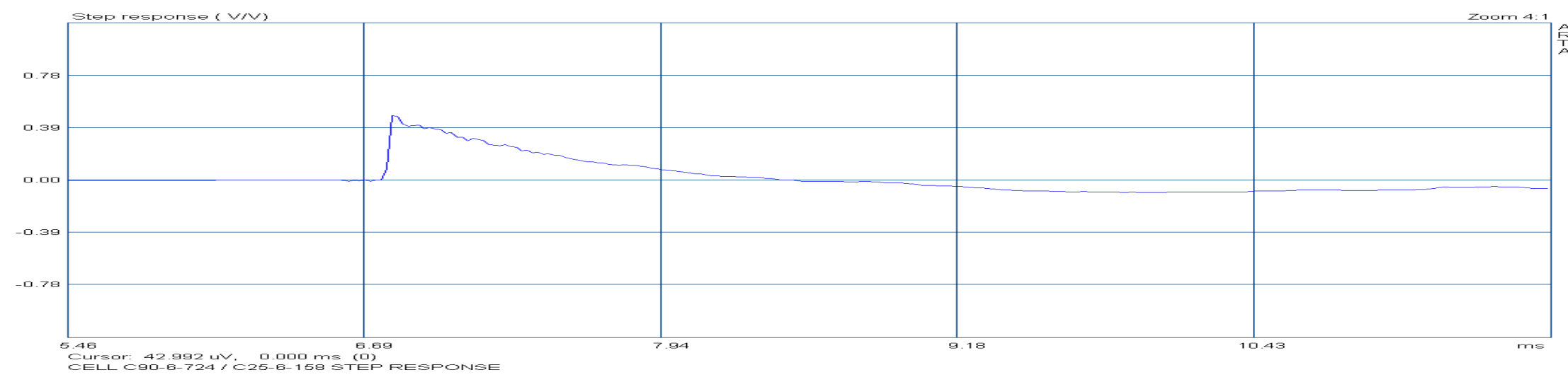
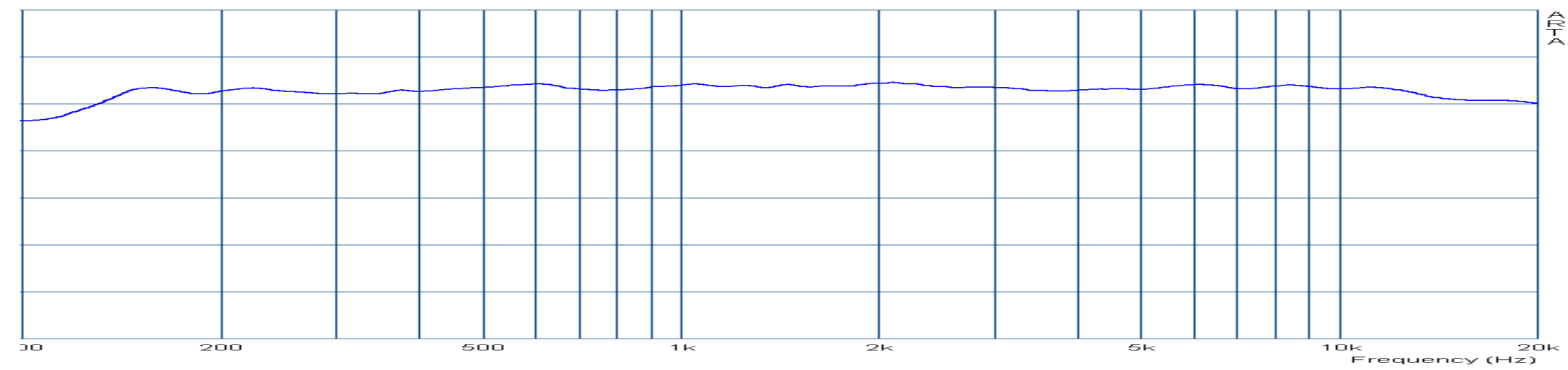
| | SOUND VELOCITY | HARDNESS |
|---------|----------------|----------|
| DIAMOND | 18.000 m/s | 10 |
| CERAMIC | 11.000 m/s | 09 |
| PAPER | 2.000 m/s | 01 |

Table 01: Sound Velocity

MEMBRANE TECHNOLOGY:

No deformation of the membrane during acceleration,
accurate transmission of voice coil kinetic energy

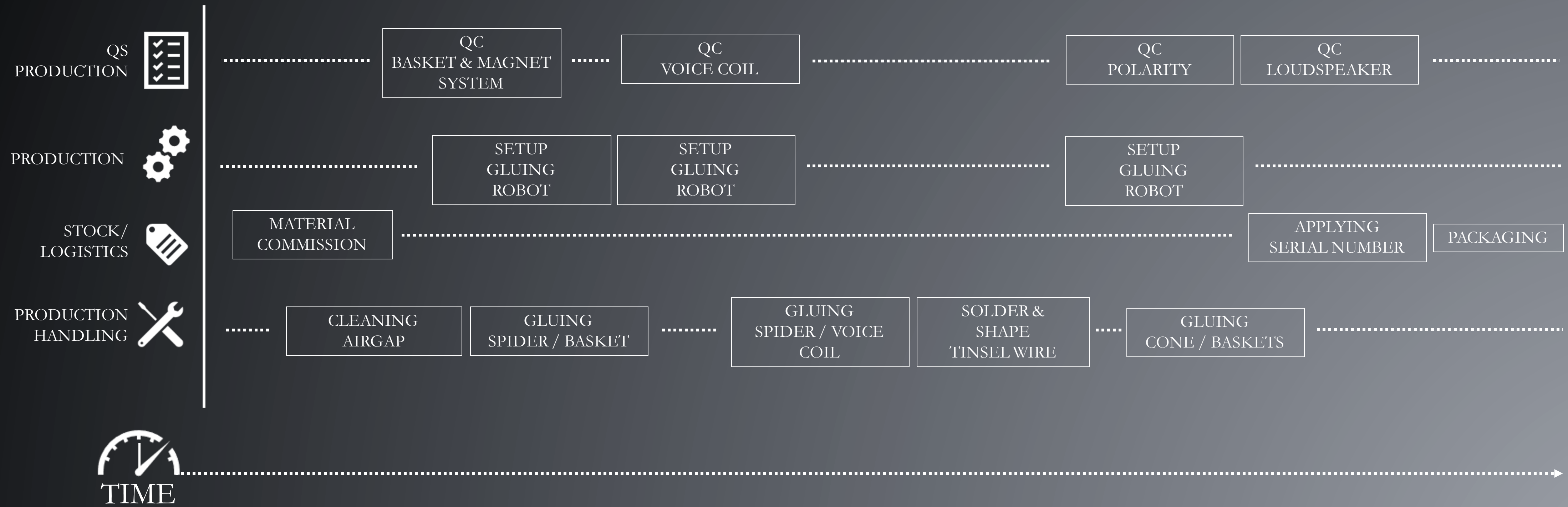
OUR PRODUCTS



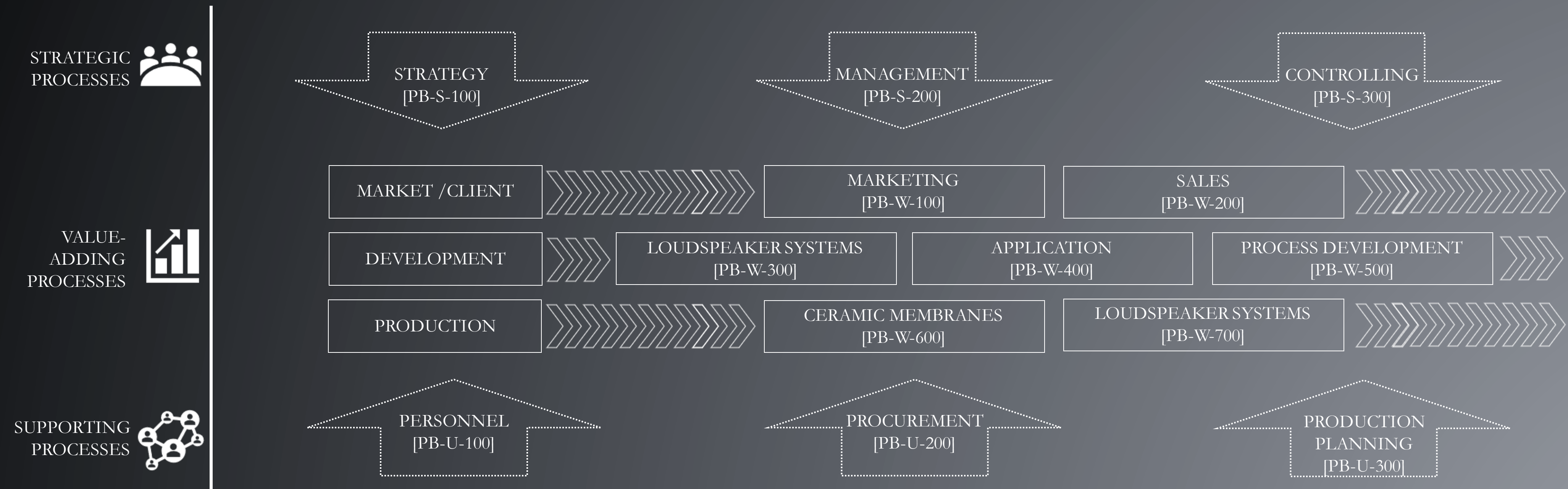
THE RESULT IS CLOSE TO IDEAL

QM SYSTEM

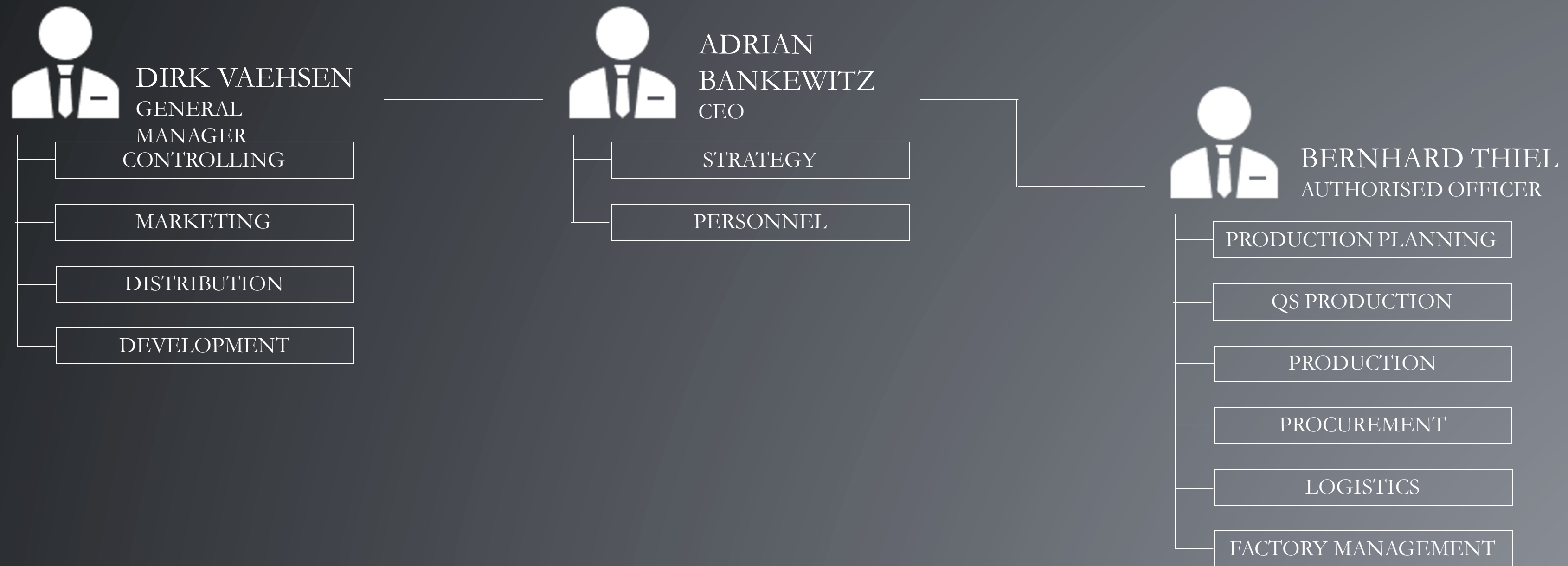
PROCESS FLOWCHART LOUDSPEAKER



QM SYSTEM PROCESS LANDSCAPE

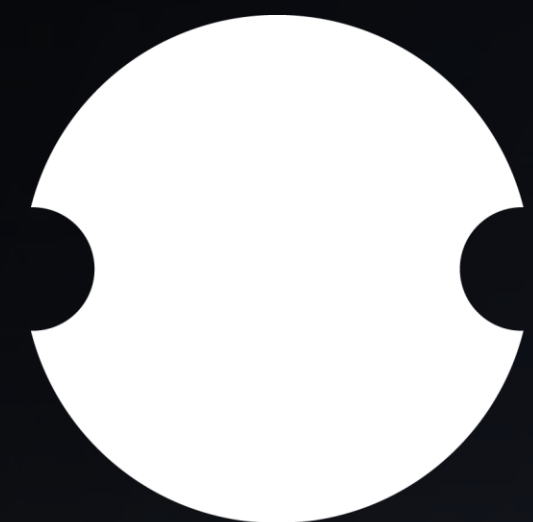


COMPANY ORGANISATION CHART





DISTRIBUTORS



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