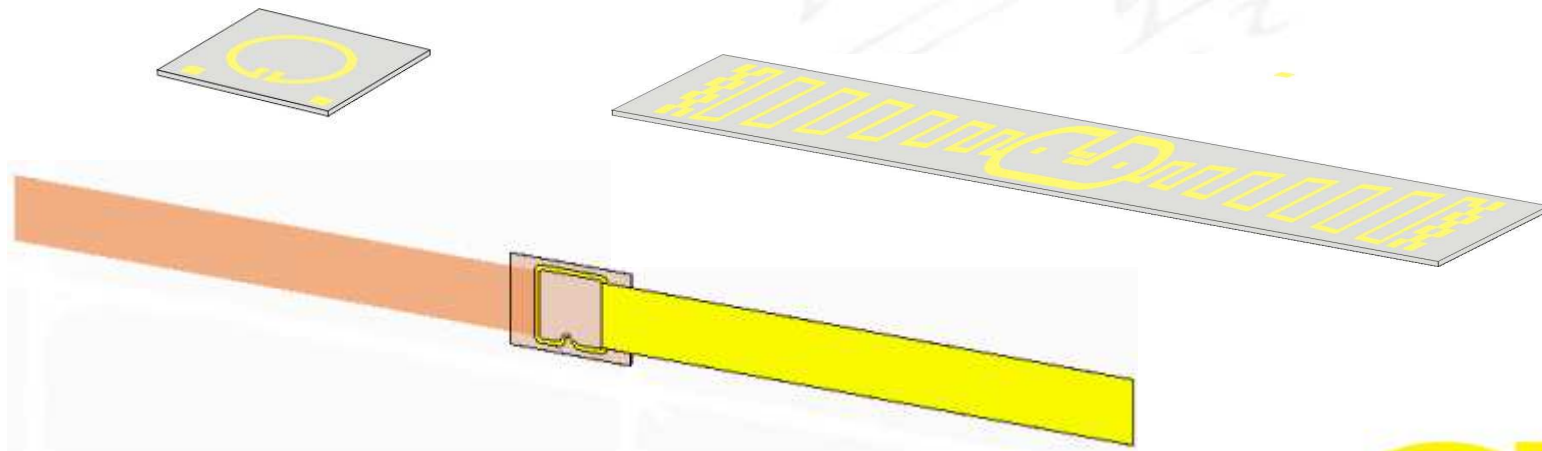


tagItron®

partner of the industry

Company Presentation



20. June 2011



introduction tagItron®

Valuable knowledge from the borderline of the
“RFID transport world” helps us to improve
tagItron®
constantly. It is our purpose, to make every Inlet
so certainly, loadable and reliable as possible,
so that our customers have the certainty to work
with magnificent quality

for us Innovation is more than a **physical** phenomenon

introduction tagItron®

It has been the goal of tagItron® since its formation, to realize customer wishes in the area of prototypes, in small series and in large quantities with the highest quality, the shortest delivery time and without technical restrictions. We consider the fulfillment of our delivery times as a firm component of our work, and not as a bare marketing concept. Through our modern machinery, wide technical knowledge and many years of experience, we can offer you optimum reliability, flexibility and speed in every technological areas (high temperatur inlet´s, high temperatur tags, etc.). This is the basis of that has made it possible for our established and expanding business to acquire a renowned reputation, in a short period of time, within national and international markets, among the demanding clientele of the special and label industry.

We will gladly advise you individually with your specific problem solving needs using technical and economical principles or simply by making the impossible possible. Ongoing developments and readiness for technological experiments provide our customers with a competitive advantage to meet the growing demands of this market.

**For us the customer is a partner with whom we would like to share our pursuit towards progress,
quality and technological advantage.**

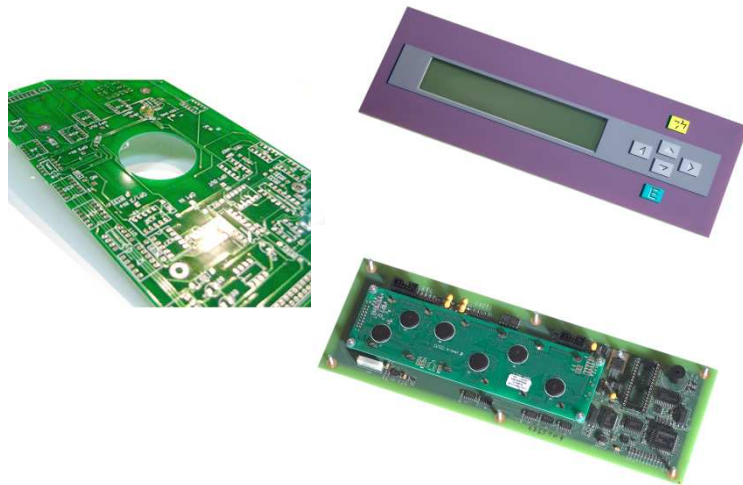
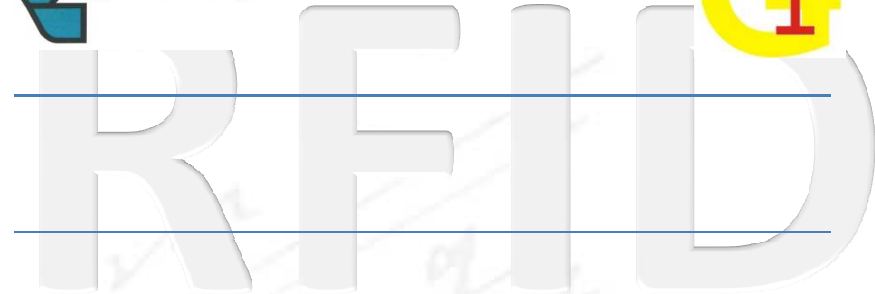
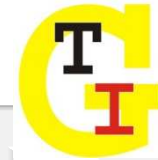


production tagItron®

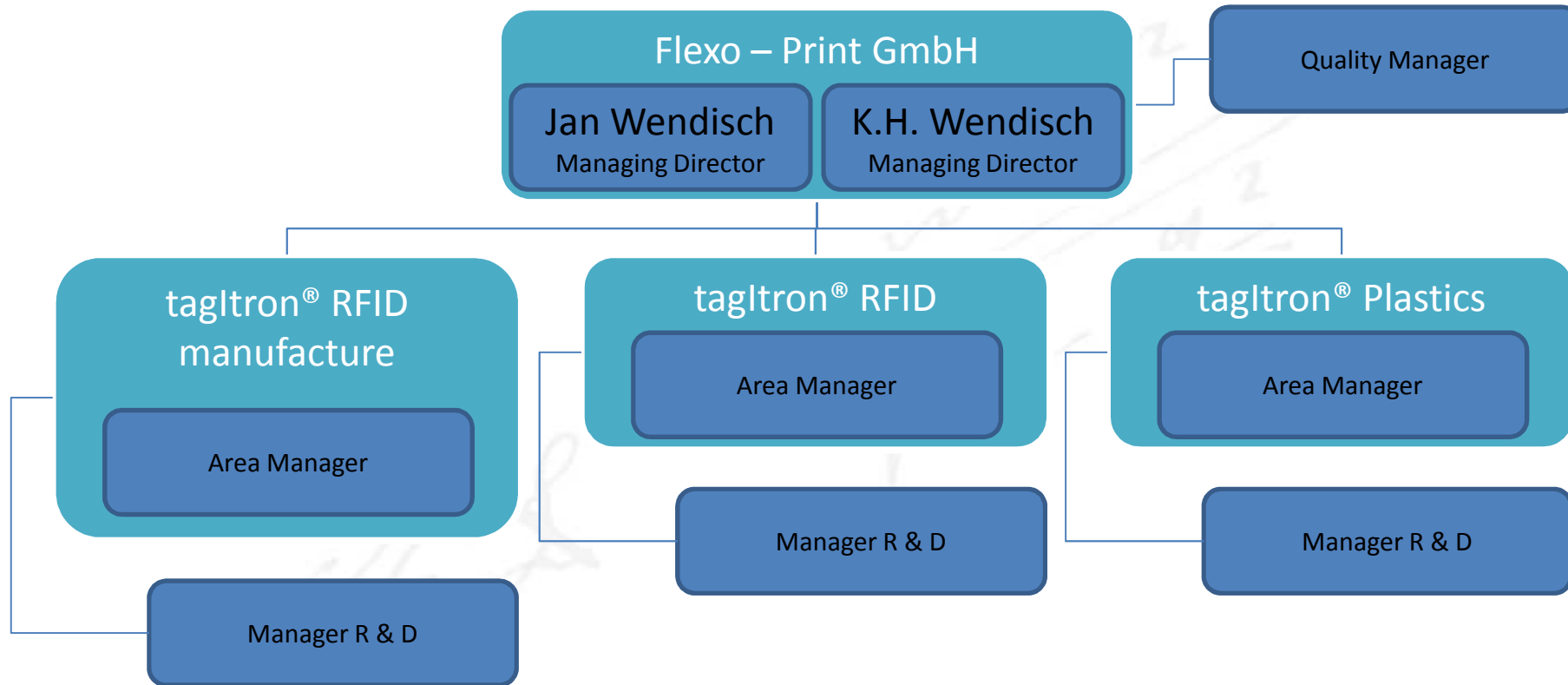


- 500 m² highly integrated transponder production
- Competence Center for product and HF / UHF design evaluation in house & 5000m² free field test area beside production and CC
- DIN EN ISO 9001 – 2008 certified
- capacity of 8 KK pcs. I- tags / a
- patented technology for Ceramics antenna production as well as high temperature Tags, Hard Tags and 3D UHF technology
- complete in house production quality „machined in Germany“

history tagItron®

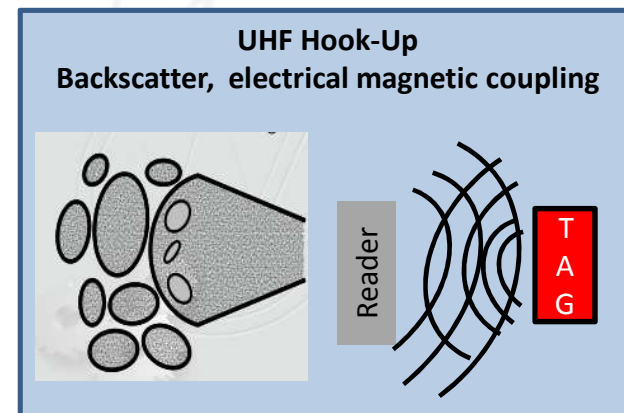
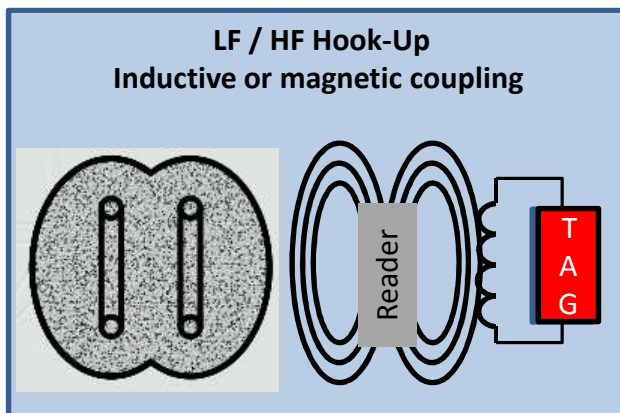


company structure tagItron®



Introduction functionality RFID with tagItron®

PASSIV RFID	125 kHz	13,56 MHz	868 / 915 MHz	2,45 GHz
Water, humidity	+	+	~	-
Metall Environment	+	~	~	+
Read distance	~	~	+	+
Anticollision	-	+	+	+
Continius Operation (Duty Cycle)	+	+	+	-
Transponder costs	-	~	+	+



Introduction RFID (Radio Frequency Identification)



„give me your number, I give you your name“

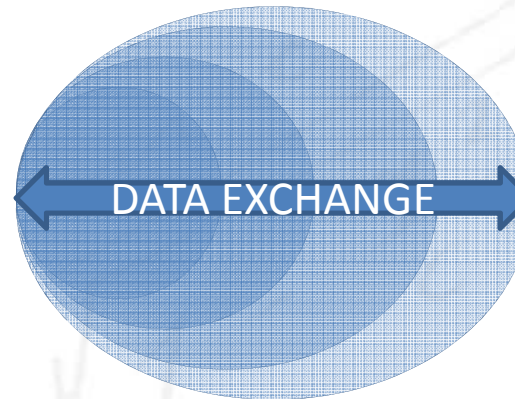
READER



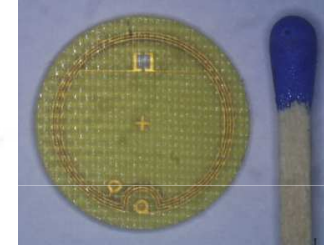
ANTENNA



electromagnetic field



RFID TAG



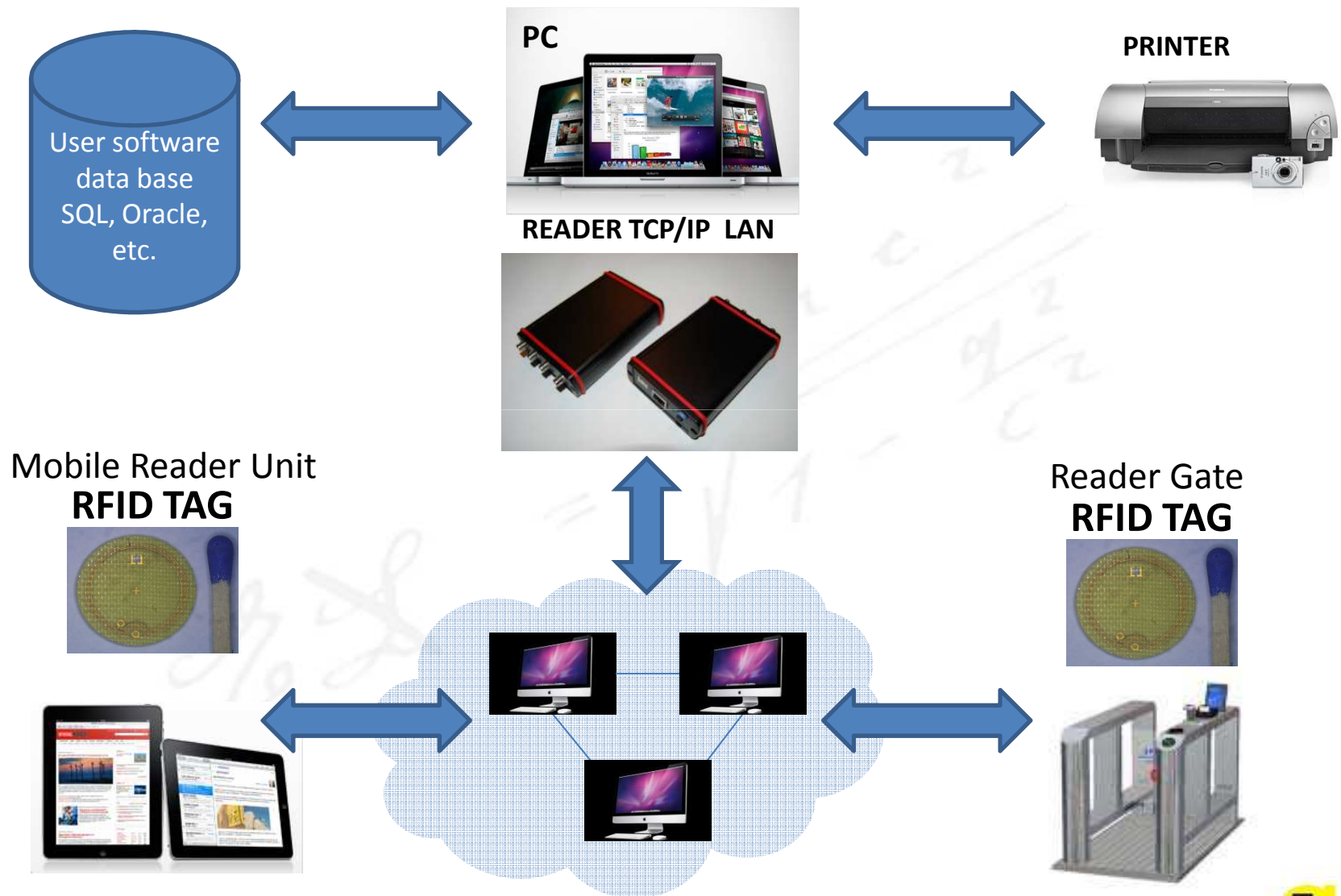
Features of RFID-Tags

- every IC has his own unique identification number (= UID)
- rewriteable memory on IC (up to type)
- contactless communication between user/tag and reader
- nearly 100%- first read succes
- simultaneous reading of several tags

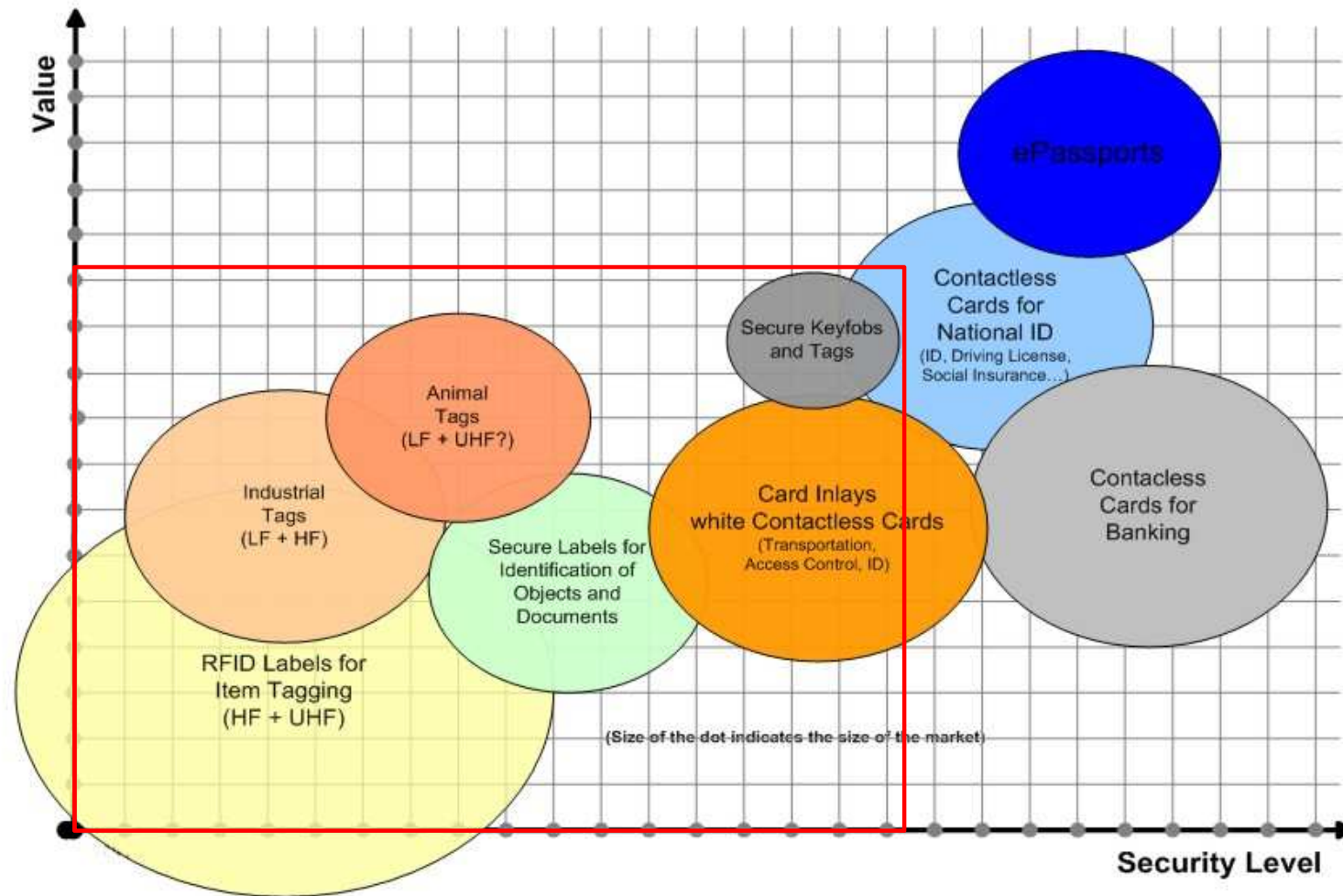
Benefits on application

- Clearly dedication to a product and product level
- fully product individualisation
- flexible data management on product
- informations on IC can be changed, stored or delete on every time
- resistend against harsh environment as dust, water etc.
- process acceleration/ reduction of measurement lapse
- process acceleration/ reduction of measurement lapse

Introduction functionality RFID with tagItron®

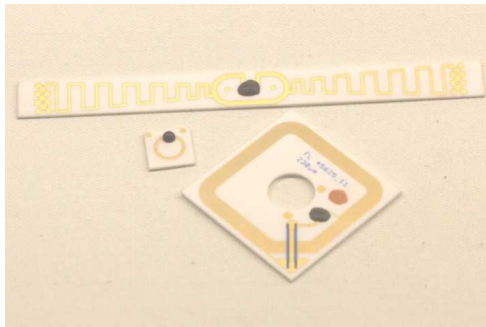


RFID application landscape



origin 2008 TIG

tagItron® forms / packagings



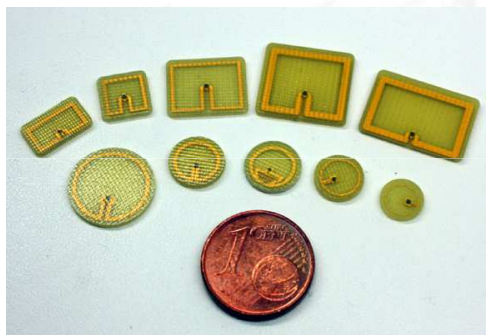
TIHT Inlets
for a direct priming /
sealing process up to
1500 bar
and 500 °C



TI PROtag Label
Standard UHF
Transponder design,
Suitable for many
applications.
Available as dry- or
wet-inlay



TIHT Xpi Tags
for high temperature
logistic applications
up to 350°C



TIHT Hard Tags
for harsh
environment
(IP 68) and
temperature logistic
applications up to
200°C

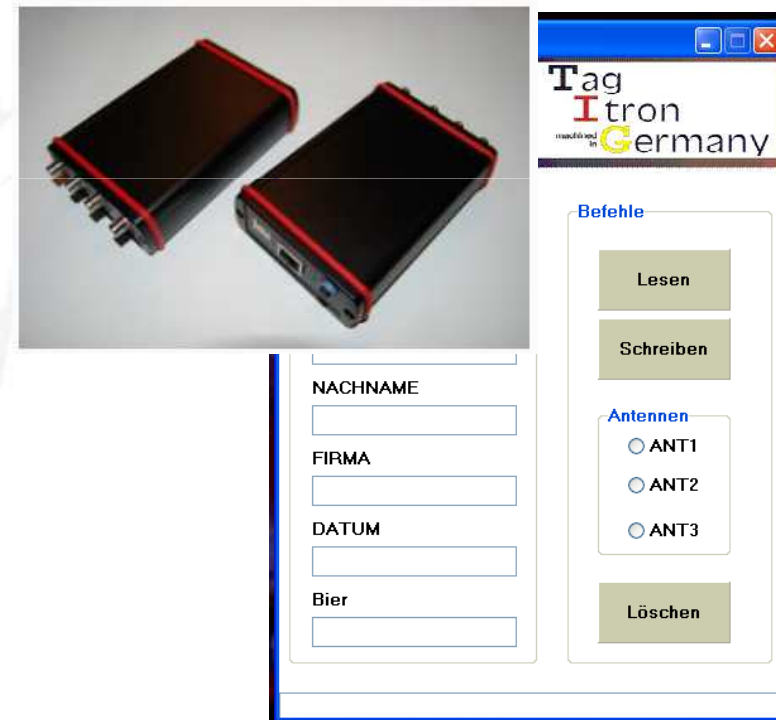
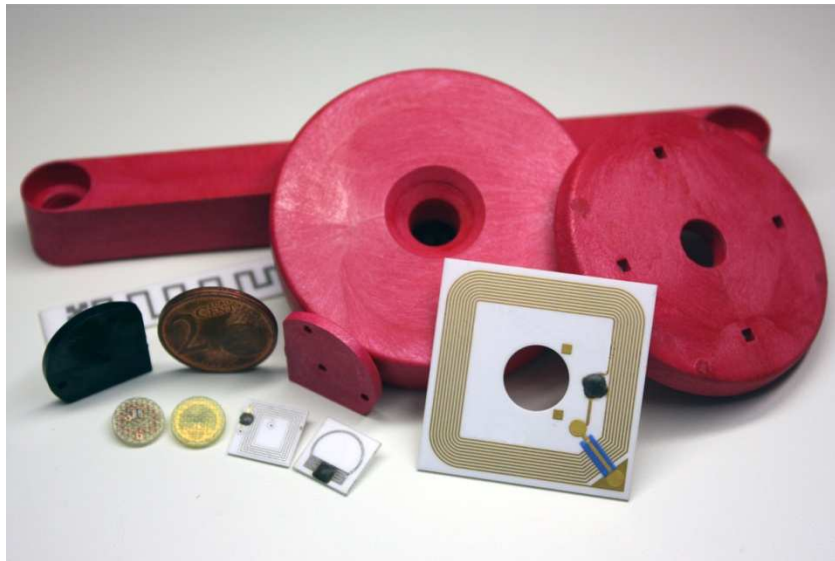
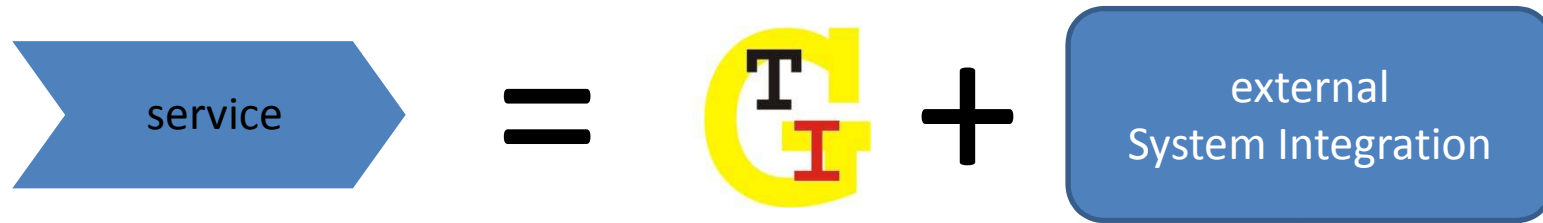


TI PP Tags
robust RFID Tag for
industrial application
as well as for
outside application
with water



TI Xtreme Tags
Small sized UHF RFID
Tag (Ø 5mm x 45
mm) with read
range up to 6m. Just
drill an tag it !

tagItron® „Services“



tagItron® „ Competence Center “

Feasibility Analysis

- environmental conditions measurement
- material permittivity measurement
- Possibility to use Standard Label and Reader

Tag Development

- calculation of tag material and size
- simulation of tag
- adapt tag to given environment conditions and materials

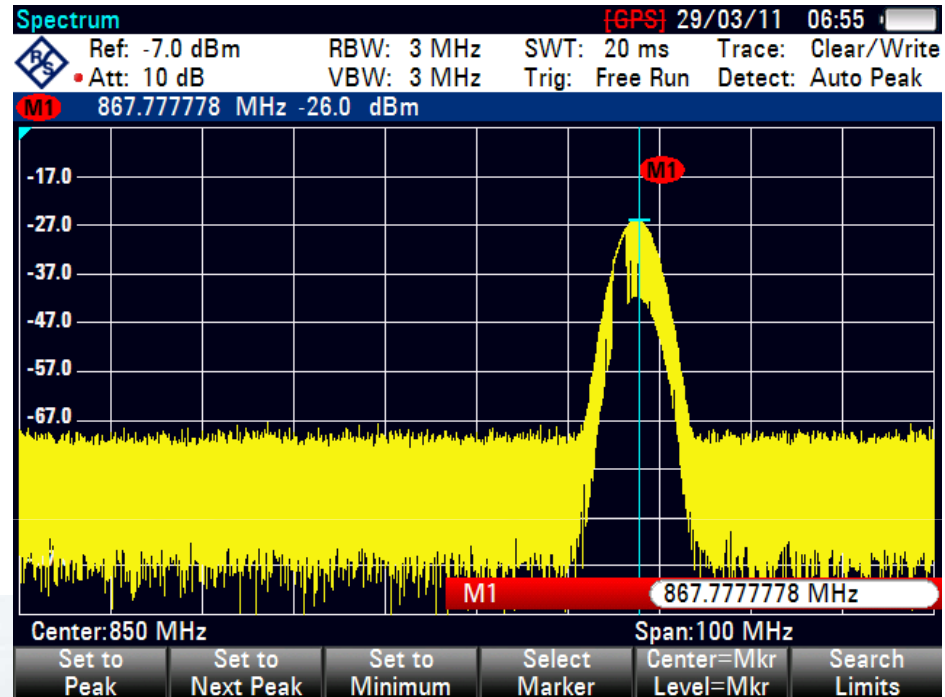
Tag Measurement

- Frequency sweep measurement at 800-1000 MHz
- Applied Tag Performance measurement at 800-1000 MHz
- Direction sweep 360 at 800-1000 MHz
- S11 Antenna Measurement

tagItron® „ Competence Center “

Feasibility Analysis

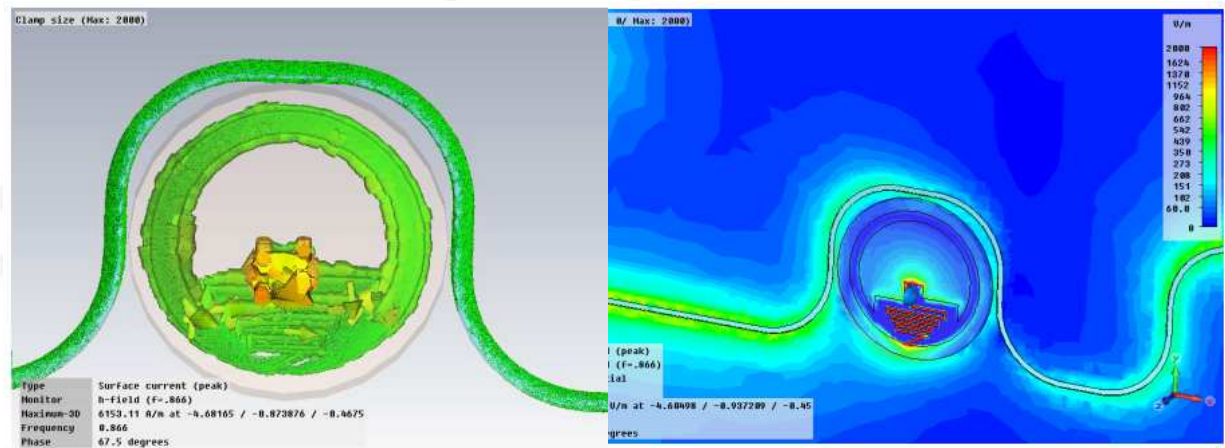
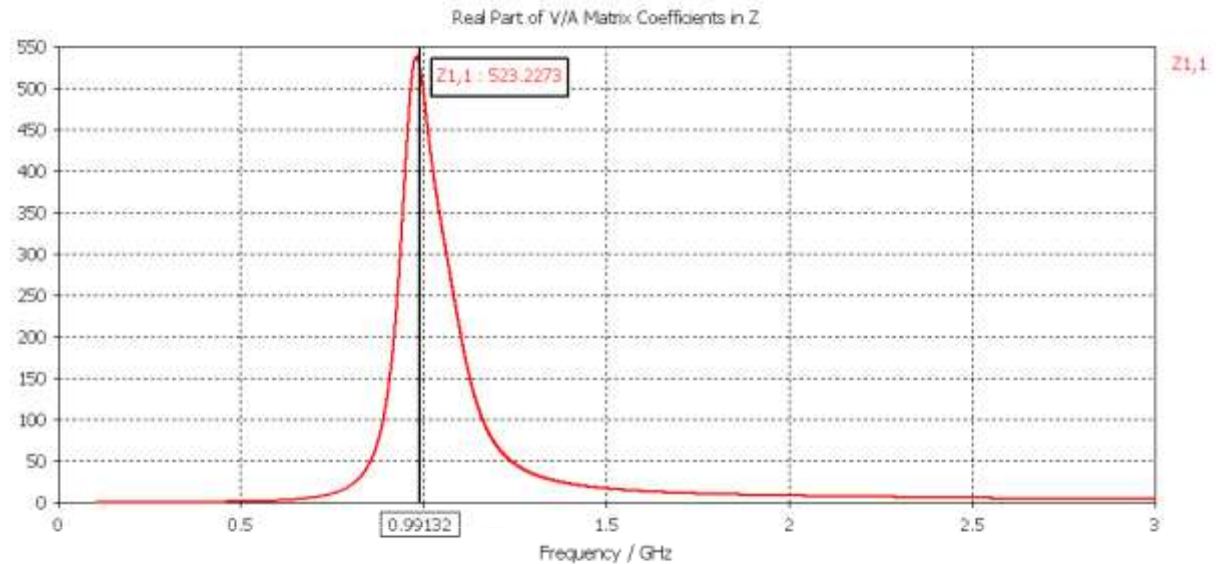
- environmental conditions measurement
- material permittivity measurement
- check possibility to use Standard Label and Reader



tagItron[®], „Competence Center“

Tag Development

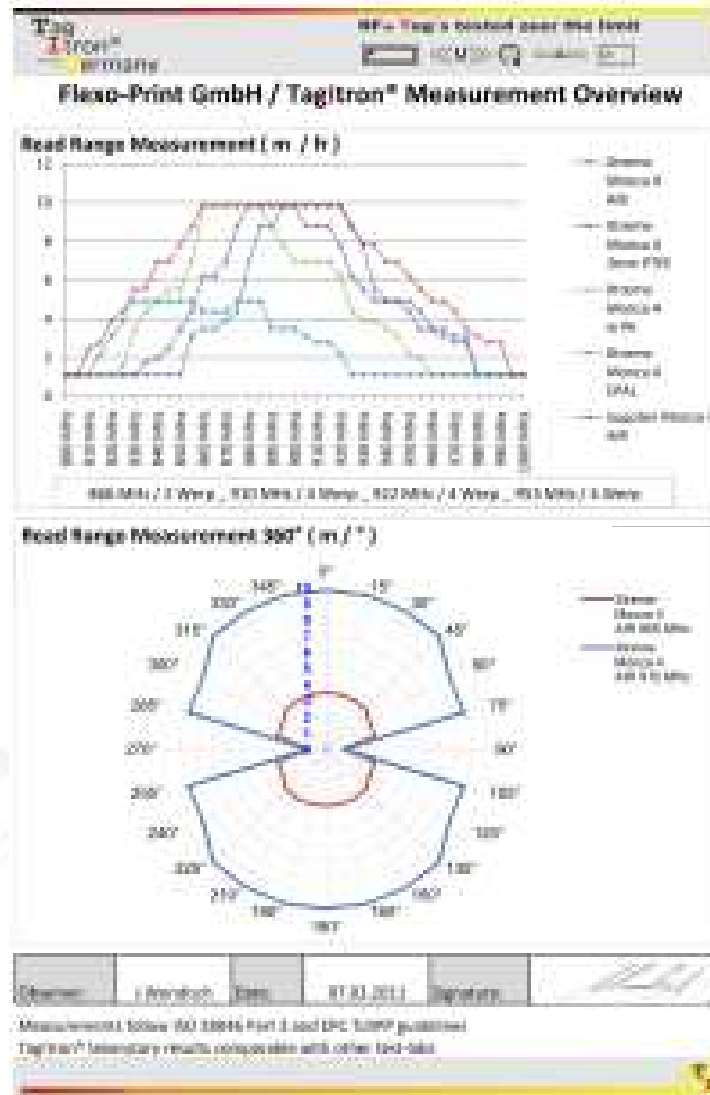
- calculation of tag material and size
- computer simulation of tags
- adapt tag to given environment conditions and materials



tagItron® „ Competence Center “

Tag Measurement

- Frequency sweep measurement at 800-1000 MHz
- Applied Tag Performance measurement at 800-1000 MHz
- Direction sweep 360 at 800-1000 MHz
- S11 Antenna Measurement



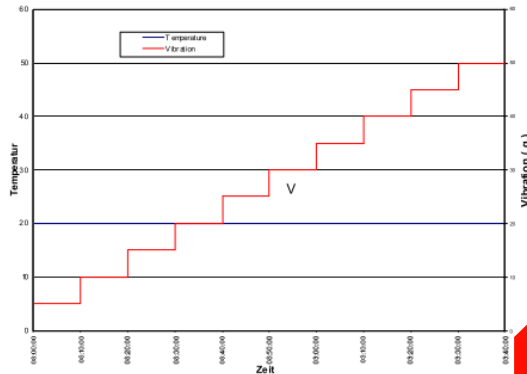
tagItron® „Competence Center“



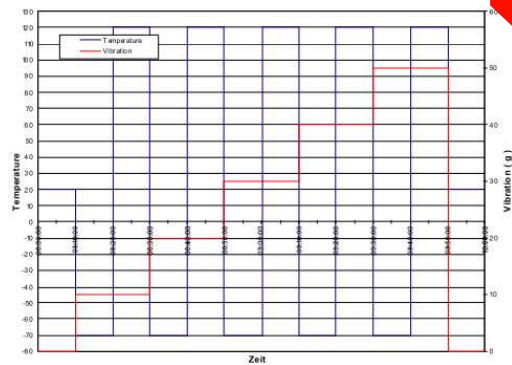
application area



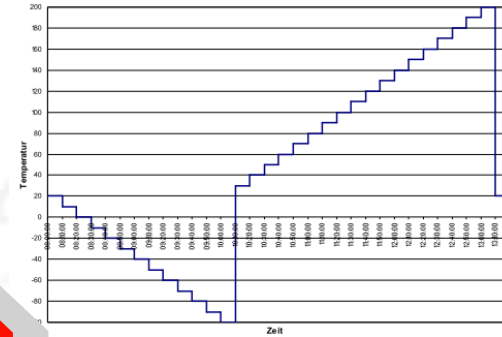
HALT = Highly Accelerated Life Test



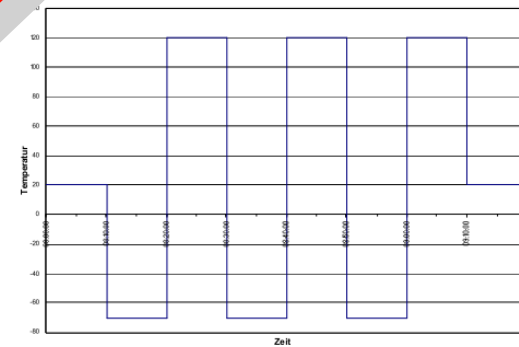
vibration test's



temperature level change test



fast temperature level change test



combined temperature level change and vibration test

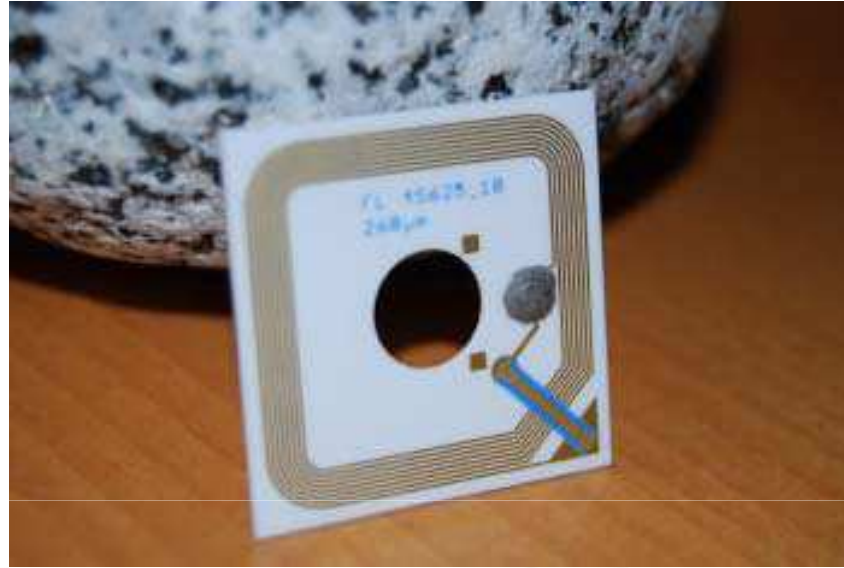


benefits tagItron®



- 15 years experience in RF-ID transponder production and business
- known for reliable and innovative technology
- close to our customers requirements
- production in Europe with short development phase
- production for all quantities and sizes
- growing with RFID market

Thank you for your attention!



Innovation and quality are not far !

Visit **tagItron.de**

partner of the industry