

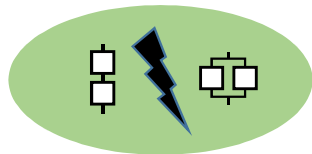
Between Puristic Paging and Multichannel Offering

**What makes Critical Messaging specific
(The Cinderella Story based on Dialectics)**

Dietmar Gollnick



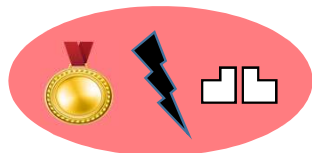
Critical Messaging –
Between Puristic Paging and Multichannel Offering



Critical Messaging –
Can you rely on one infrastructure only – and being trustable?



Critical Messaging –
Can you offer multichannel w/o any connection to paging?



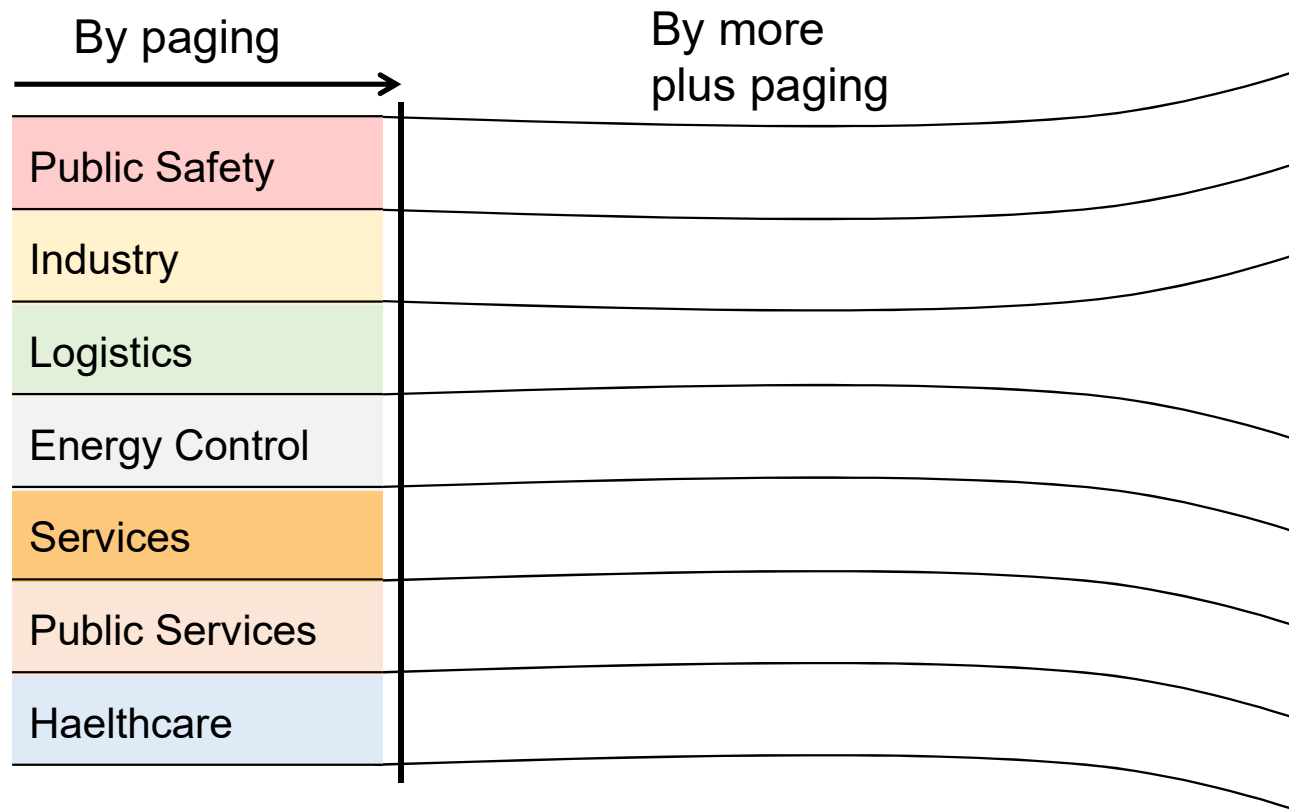
Paging and Multichannel -
Two sites of a medaile or two shoes of one pair?



Great Philosophs about Critical Messaging

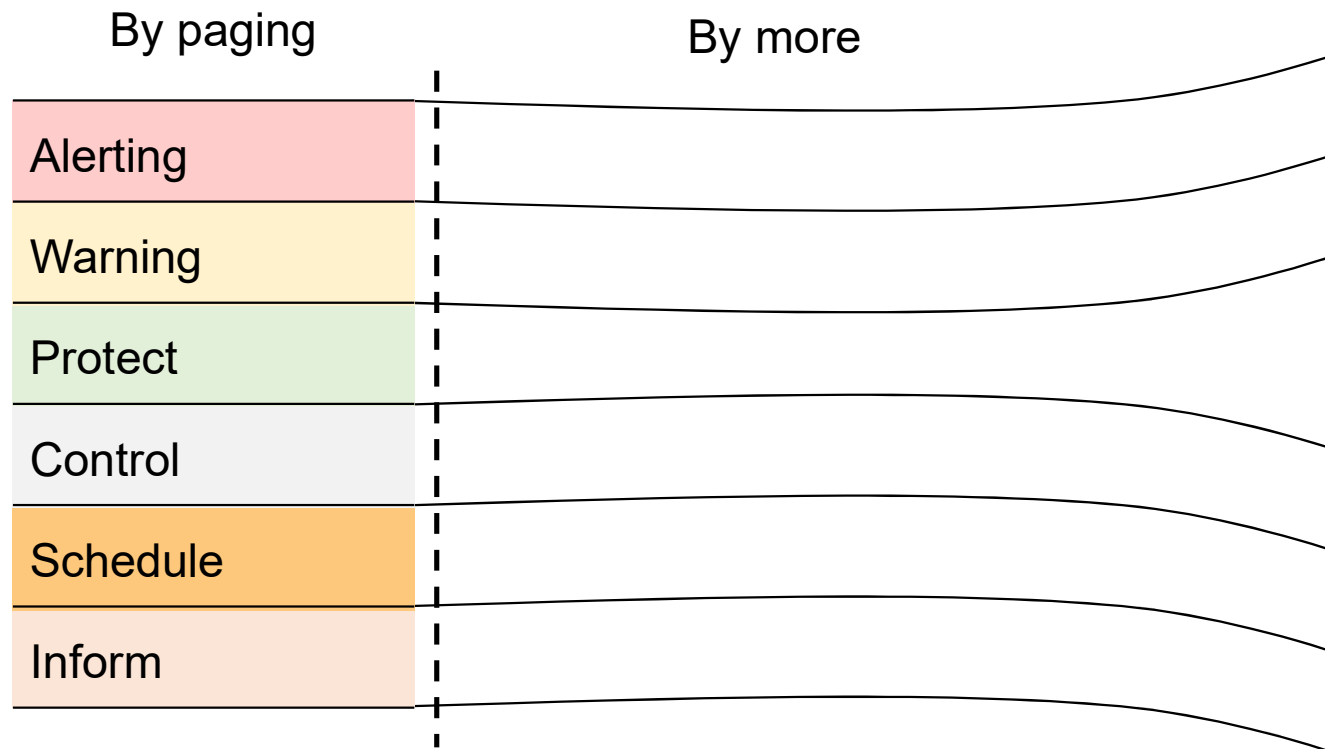


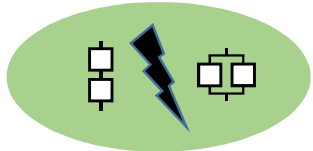
The Message is Critical Markets addressed by CMA Members





The Message is Critical Applications provided by CMA Members





Critical Messaging –
Can you rely on one infrastructure only – and being trustable?

No. Never.

Since 200 years: Ingenieur takes two ways minimum for reliability.
Understand why developing new cars is expensive.
Understand why ISS has no „all in one“ tools.

See	2016	Brussels Bombings. WarnApp comes 8 hours later
	2019	In Smart City Berlin a 31 hours Blackout
	2020	In Switzerland Cellular Network down
	2020	Worldwide WhatsApp Outage in July



Critical Messaging –
Can you offer Multichannel w/o any Connection to Paging?

Paging is reliable, one-2-many, easy to implement, easy to use, easy to embed

Paging is aproved by ETSI and CEPT (see #NP2M)

Paging is there. And cost- and power efficient

Yes, Multichannel somehow thinkable w/o Paging.
But, less efficient in terms of high Reliability.

No, without Paging like mind you will never think in Reliability.



Paging and Multichannel - Two sites of a Medaile or two Shoes of one Pair?

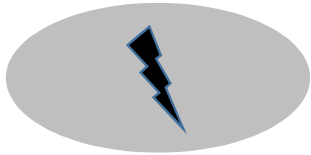
Arguments

Pro 1

w/o Paging unlikely Multichannel
w/o Multichannel Paging will be in a niche only
w/o Paging more difficult to explain real Multichannel
Paging Incarnation of one way of the Multichannel

Pro 2

Difficult to stay reliable and with a Business Continuity approach
and long time only one leg using



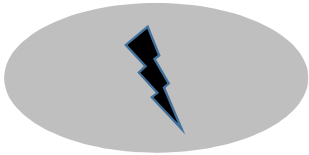
F. Engels in 1877: Anti Dühring and the Laws of Dialectics

1. Transformation of Quantity in Quality (and vice versa)
2. Interpenetration of Opposites
3. Negation of the Negation

What can be more actual than these laws?



G.W.F. Hegel
(1770-1831)
Quelle: Wikipedia



Transformation of Quantity in Quality (and vice versa)

MORE

nature, health, industry challenges and outages – higher quality
more value and visibility of 2nd infrastructure, paging and multichannel
(now quality)

EVEN

more COMPLICATE our daily life, even more SOPHISTICATED
and partially for one man not understandable – even more need
of EASY to use, EASY to implement, EASY to understand!

Implementation of Opposites

- 195x - Line based Point to Point Connections. Partially Broadcast, too.
- 195x - ARPAnet – Packet like Information Pieces. Step to IP base and internet. More efficient for individual mass data.
- 202x - Cellular needs One-2-Many.
One-2-Many needs Cellular.

Paging could be a real Cinderelly Story.
Who should tell it?
You!



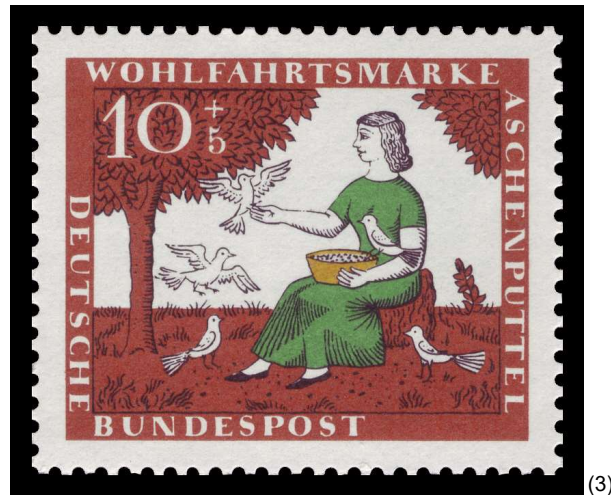
(1)



(2)

Picture source: (1) de.wikipedia.org, Märchenbrunnen im Volkspark Friedrichshain
(2) Deutsche Post via [de.wikipedia.org/wiki/Märchen_\(Wohlfahrtsmarkenserie\)/Aschenputtel](https://de.wikipedia.org/wiki/Märchen_(Wohlfahrtsmarkenserie)/Aschenputtel)

Working like a horse.
Proven. Reliable. Efficient.



(3)

It's that what is needed.
Complementary. Narrow Band – P2M.



(4)

Picture source:

(3) (4) Deutsche Post via [de.wikipedia.org/wiki/Märchen_\(Wohlfahrtsmarkenserie\)/Aschenputtel](https://de.wikipedia.org/wiki/Märchen_(Wohlfahrtsmarkenserie)/Aschenputtel)

Hybrid key.
Cellular needs NP2M and Paging



Picture source:
(5) Deutsche Post via [de.wikipedia.org/wiki/M%C3%A4rchen_\(Wohlfahrtsmarkenserie\)/Aschenputtel](https://de.wikipedia.org/wiki/M%C3%A4rchen_(Wohlfahrtsmarkenserie)/Aschenputtel)