



Announcement Radio Toolbox

Customizable linear Programms

Funded by



Bayerische
Staatskanzlei

Partners

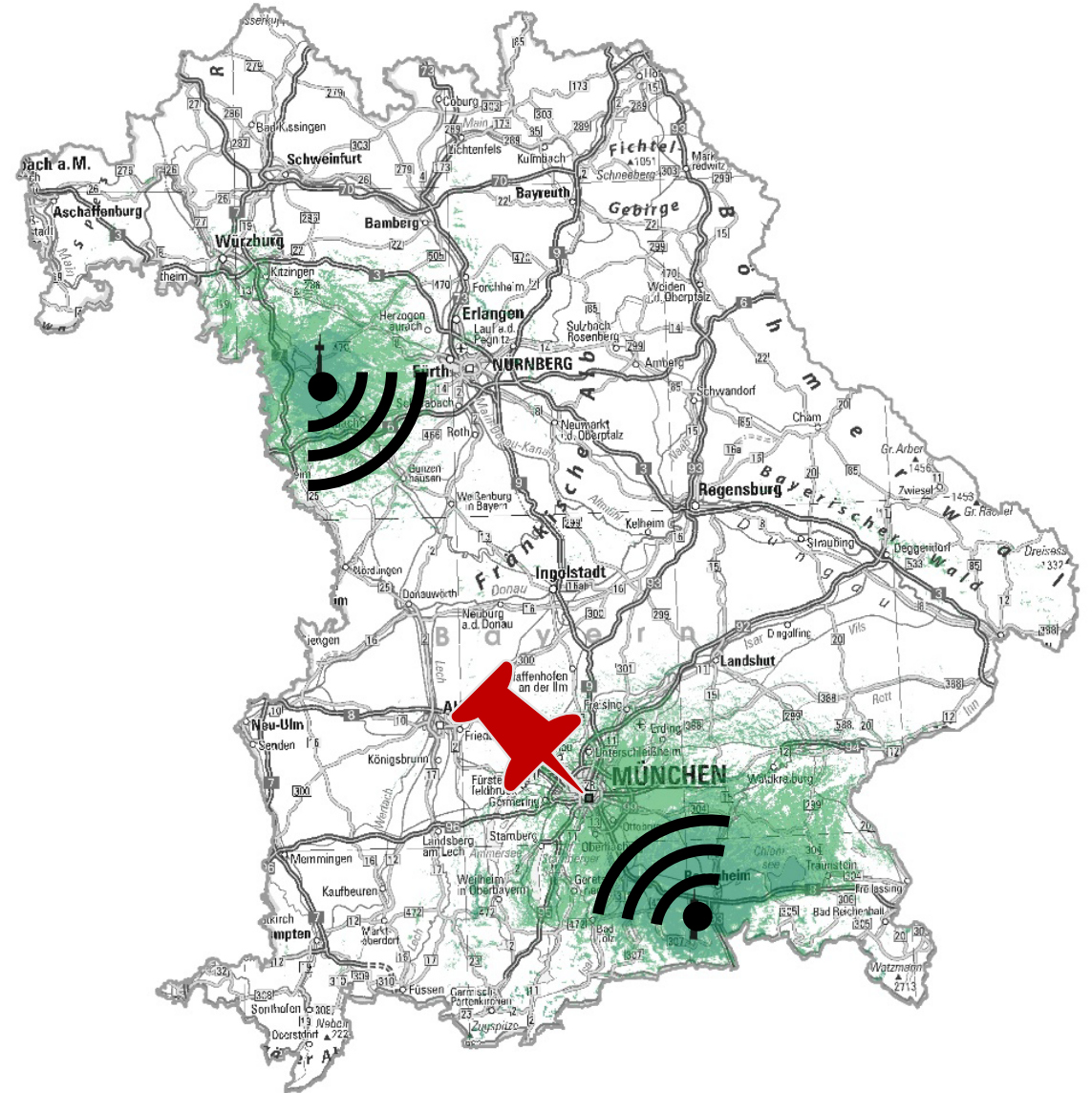


ART project is on-air

On Air on Test Ensemble 10D,
with 2 transmitters:

- Wendelstein (10 kW ERP)
- Ansbach/Büttelberg (2 kW ERP)

ETI recordings available upon request
for receiver testing purpose.



Idea of the ART project

Five music channels with distinct music genres

"TEST Jazz"

"TEST Country"

"TEST Electro"

"TEST RnB/Soul"

"TEST Bavarian Sound"

Idea of the ART project

The info channel offers news and information on various topics

"TEST Info"

"TEST Jazz"

"TEST Country"

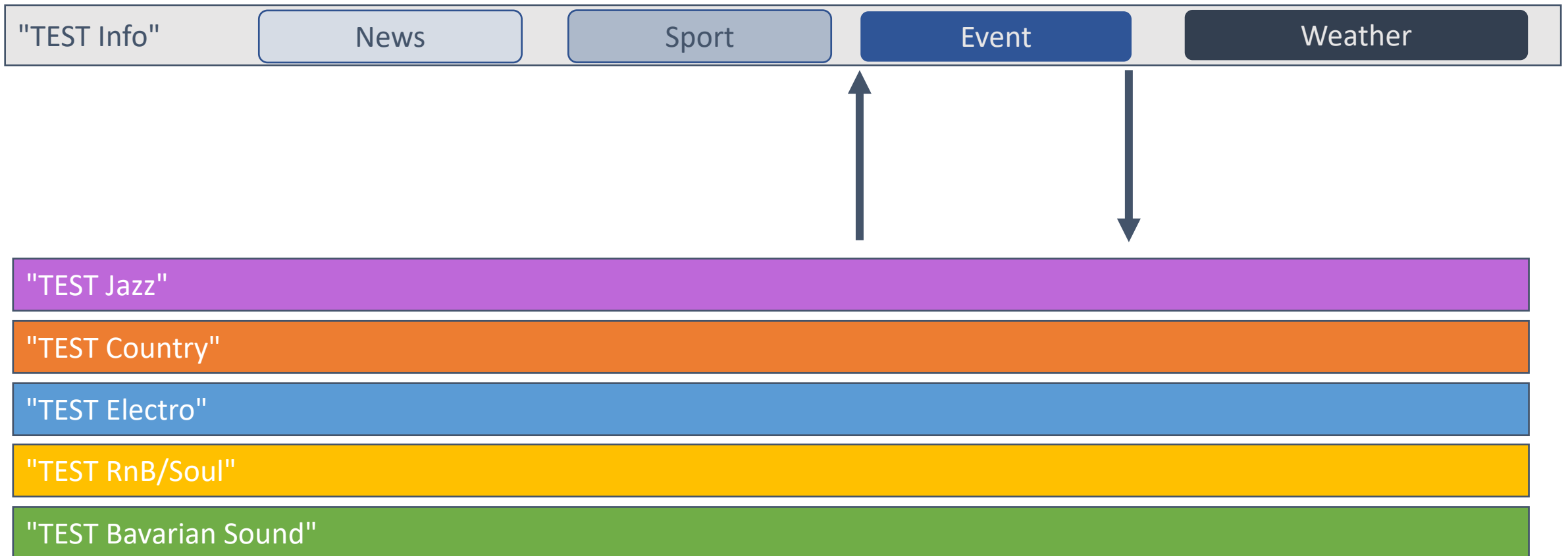
"TEST Electro"

"TEST RnB/Soul"

"TEST Bavarian Sound"

Idea of the ART project

Automatic switching
by DAB announcements



Idea of the ART project

1

Choose music

Jazz

Country

Elektro

Industrial

Folk

2

Choose information
(none, some or any)

sports

transport

news

weather

event

traffic

finance

warning

Idea of the ART project

1 Choose music

Radio

- Jazz
- Country
- Elektro
- Industrial
- Folk



2 Choose information
(none, some or any)

sports transport

news **weather** **event**

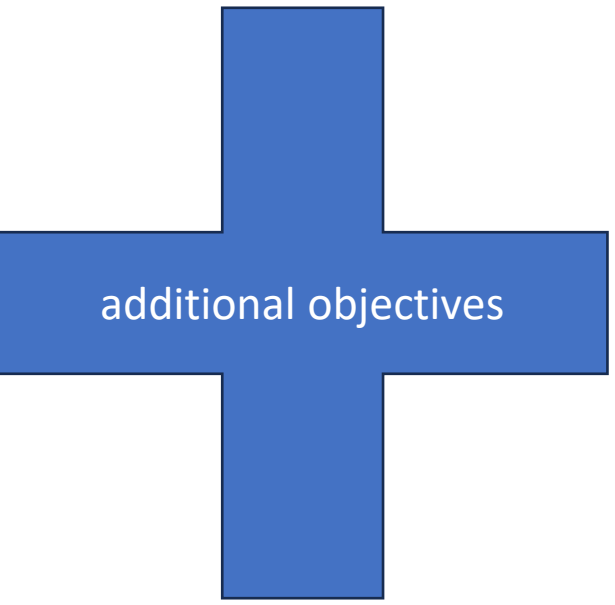
traffic finance

warning

Objectives of the ART project



DAB
Announcements



Objectives of the ART project

Speech Synthesis
for Infochannel

DAB
Announcements

Objectives of the ART project

Speech Synthesis
for Infochannel

DAB
Announcements

Cloud Based
Playout and
Multiplexing

Objectives of the ART project

Speech Synthesis
for Infochannel

Bonus

AI Generated
Slideshow Images

DAB
Announcements

Cloud Based
Playout and
Multiplexing

Radio is visual

Receivers have displays,
DAB supports slideshows,
so we need cover art!

Let's create our own artwork!

On-Air: Tier 1 – simple generation approach

Nice eye-catchers, but often unrelated to the song



On-Air: Tier 1 – simple generation approach

Nice eye-catchers, but often unrelated to the song



Misconception of the German word „Depp“ (= Fool) found in the title.

In preparation

Tier 2 with better correlation to the song.

Will be on-air in December!

Preview for some songs available.

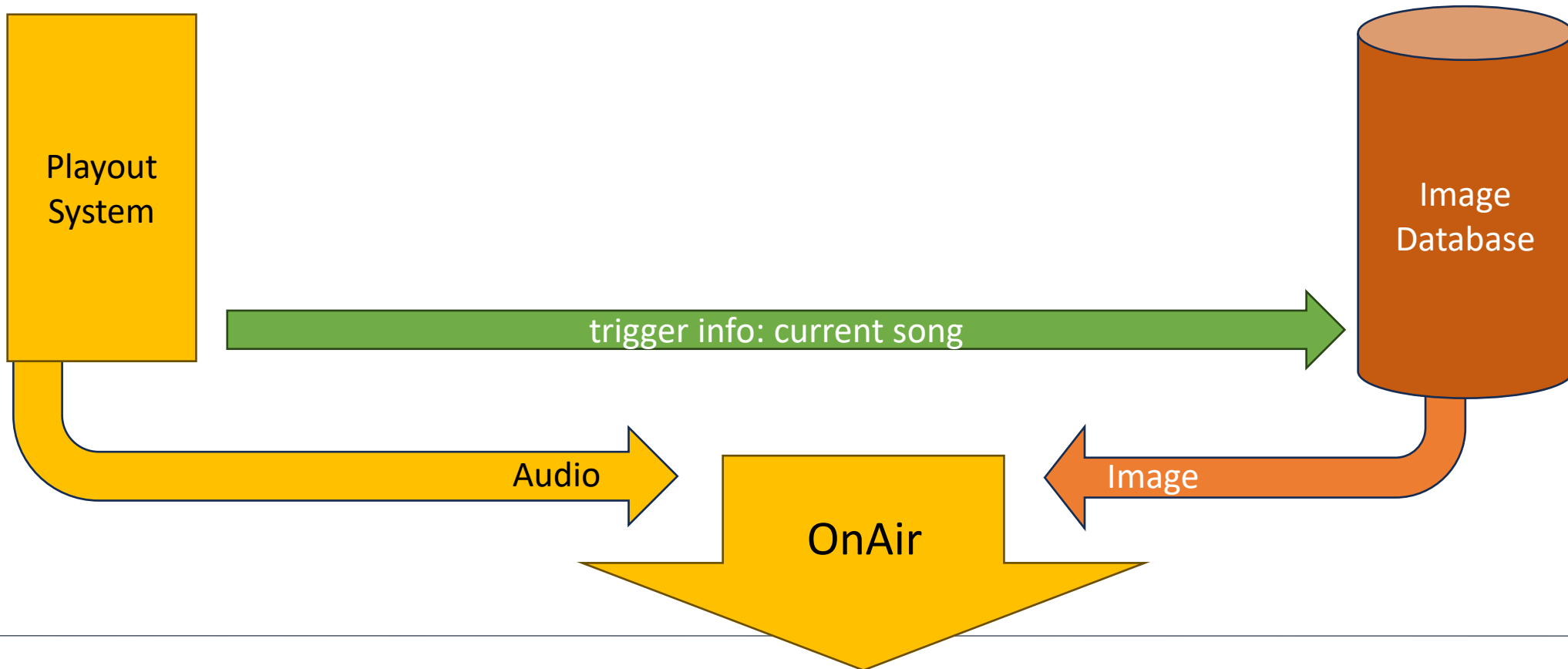
Guess the song!



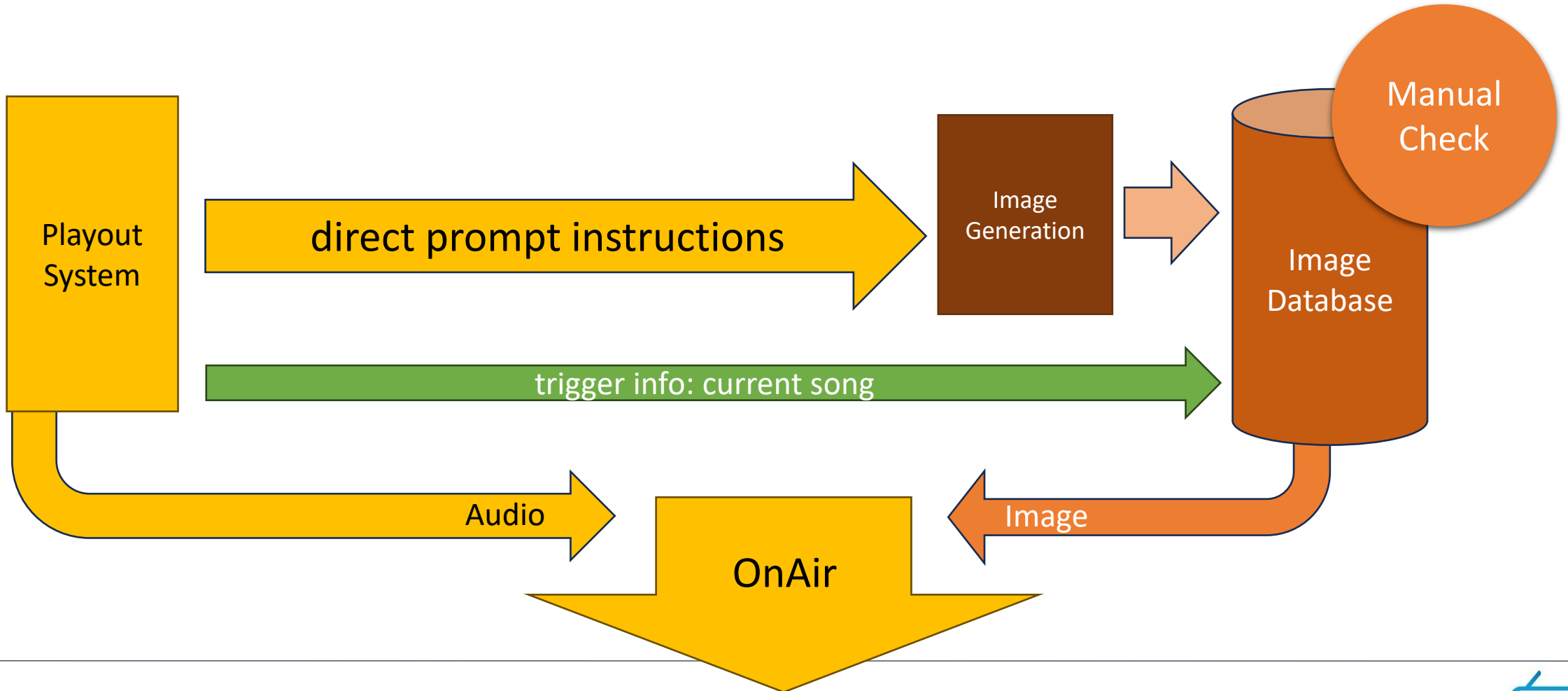
Guess the song!



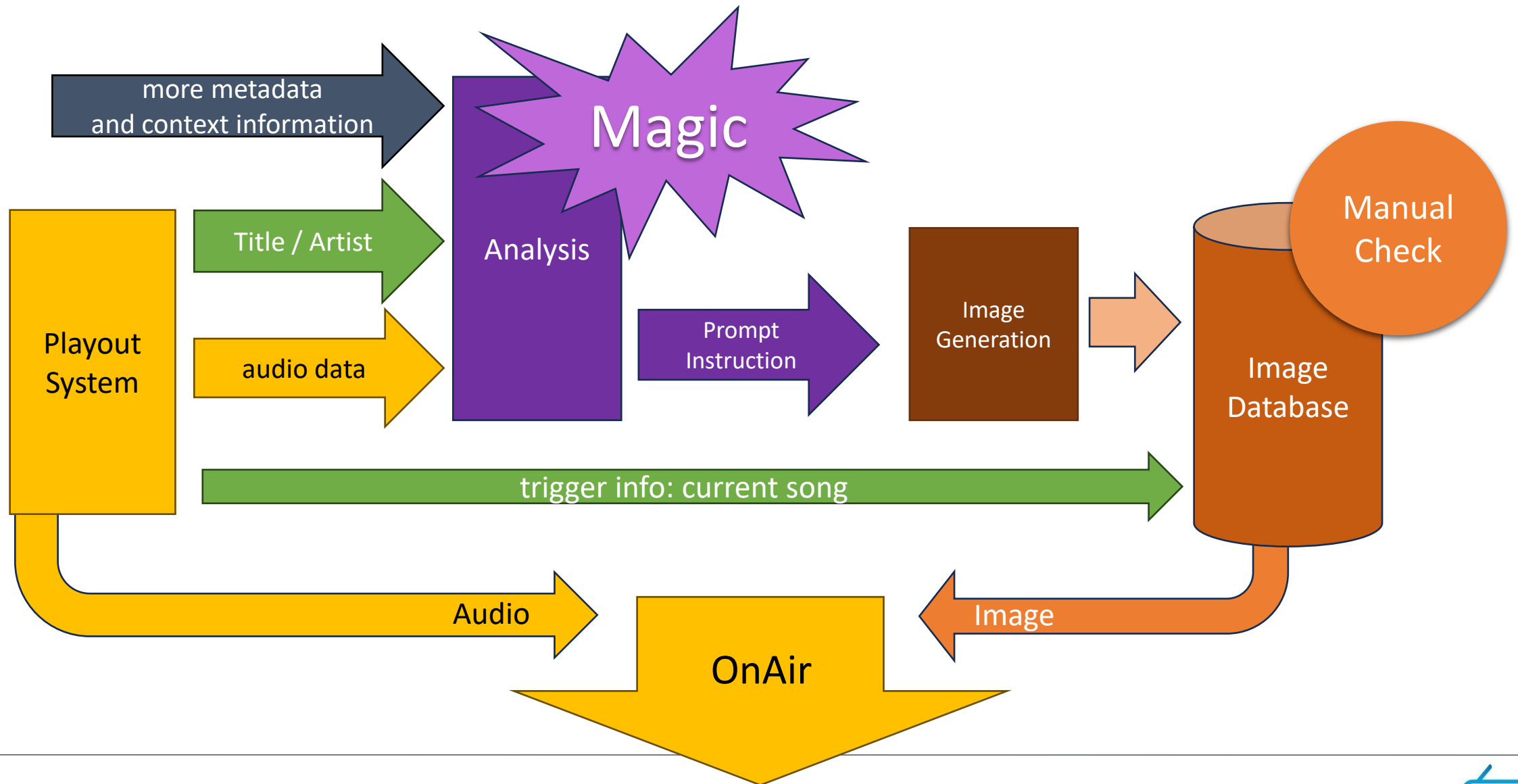
Slideshow playout – general concept



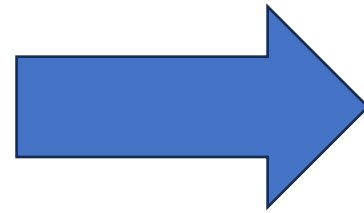
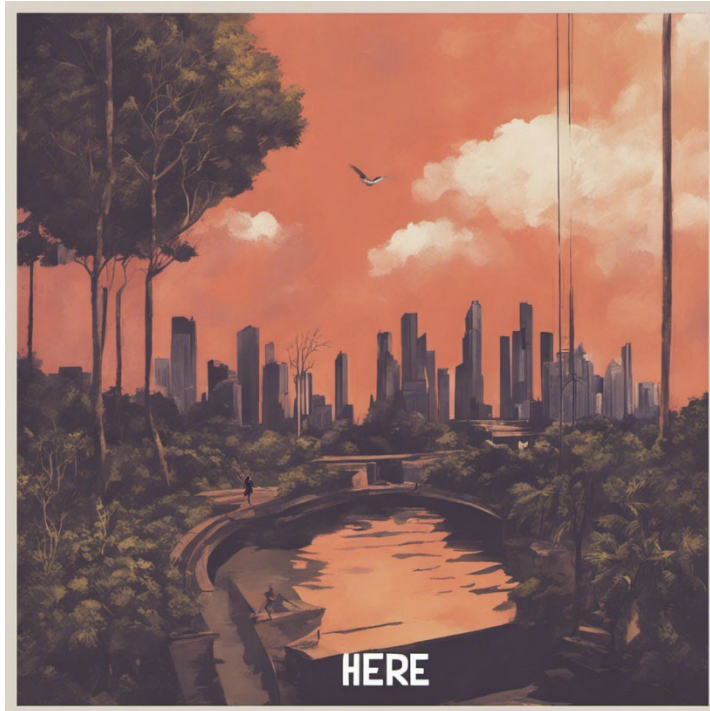
Tier 1 – Simple approach using generative AI



Tier 2 – Experiment in progress



Alessia Cara - Here



Simple

Very generic and unrelated

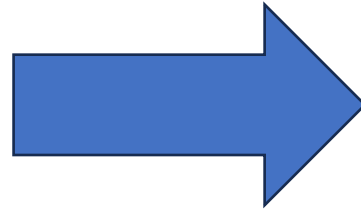
Improved

Matches Artist, Mood and Meaning

Taylor Swift – Speak Now



**Simple
Matches Artist**



**Improved
Matches Meaning**

Limits and obstacles

Automation has limits
e.g. Rated Content

AI does not like Sex and Bombs

Limits and obstacles

Tom Jones
Sex Bomb

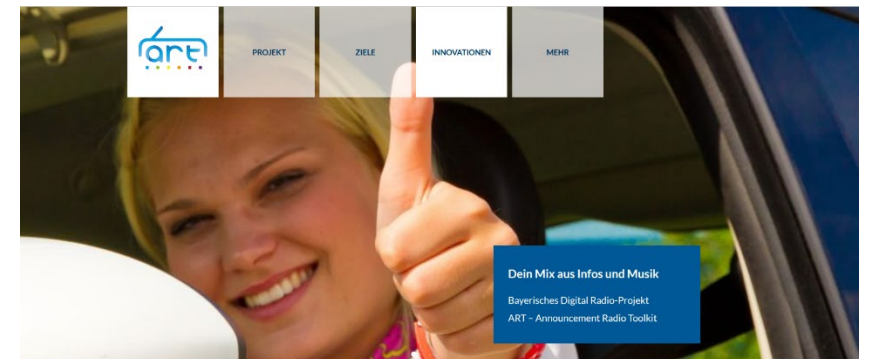
Computer says NO!



Thanks
for your attention

more information
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Die Idee

Wie lassen sich Lieblingsmusik und persönliche Interessen bei Wortbeiträgen im linearen Radio kombinieren, welche Technologien braucht es und wie klingt es für Hörerinnen und Hörer?

Das bayerische Projekt Announcement Radio Toolbox (ART) untersucht die Kombination von reinen Musikprogrammen mit einem Infokanal in Digital Radio DAB+. Das Projekt hat eine Laufzeit von 14 Monaten und wird von der Bayerischen Staatskanzlei gefördert.



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