

I have a Freeflight dream ...

A **dream** written down with a date, becomes a goal.
A **goal** broken down into steps becomes a plan.
A **plan** backed by action makes your dream come true!



HEC 2020+
written down in 2015 and updated

... and I need your support,
that this dream come to reality!



HEC 2020+ stages for next years

You personally are invited to go with us this way

2017 - 2019

2011 - 2013

Start of HEC and first steps

Setting up of this HEC series in 2011

in combination of founding „Easy“ classes at EUROPE COUPE Revival by Ansgar

Successfull implementation of this series

by quick integration in many European countries with great participation of contest organizers and sportsmen esp. juniors

	2011	2012	2013
Competitors	107	166	189
thereof junior	30	79	75
contest participations	163	260	345
thereof junior	35	103	116
Contests per competitors	1,52	1,57	1,83
thereof junior	1,17	1,30	1,55
Contests	14	18	33
Countries			
HEC contests in	9	9	15
competitors from	14	14	21

Introduction of final contest

as last decision making contest with price giving ceremony as highpoint of season

2014 - 2016

strengthening of HEC activities

1. new HEC rules 2014 :

- harmonize the actual rules with the wishes , controllable and easy visible definition by building only categories for ranking in 1 class F1H and
- bring the rules in line with the vision and goals

2. Increasing the competitors in next years by

- motivate new sportsmen to fly F1H in HEC
- stabilize the number of HEC countries and motivate more sportsmen to take part in home HEC contest
- reaching, that all countries will host 3 HEC contests strengthening and enthusiasm HEC activities

HEC activity indicator	2014	2015	2016
competitor	205	234	280
thereof: juniors	80	110	135
flown contests	407	452	564
thereof: juniors	126	160	231
contests/ participants	1,99	1,93	2,01
thereof: juniors	1,58	1,45	1,71
contests	45	48	51
countries			
with HEC contests	20	19	19
competitors from	22	21	21

taking benefit of HEC

3. Bringing young, fresh blood to flying fields by

- install special junior program in each country and enforcing the activities of education for kids, schoolboys in Freeflight like Catapult Launch Glider (CLG) or Hand Launch Glider (HLG) as preliminary stage of entering the freeflight scene
- program: every senior must teach a junior, before he stop FF

4. Creating happiness under the F1H flyers by

- running this series as fascinating challenge with a wide basis of happy F1H flyers, especially „young and hope“ generation

			vor Finale
HEC activity indicator	2017	2018	2019
competitor	284	295	269
thereof: juniors	159	143	132
flown contests	590	583	496
thereof: juniors	274	249	222
contests/ participants	2,08	1,98	1,84
thereof: juniors	1,72	1,74	1,68
contests	53	53	53
countries			
with HEC contests	17	19	19
competitors from	19	18	20

2011

2020+

**What
is
HEC ?**

**has >900 competitors in total of last 9 years !
is more than only a one time fashion event !
has found his position in the Freeflight family !**

- **HEC** is the abbreviaton for **F1H EURO Challenge**
 - **HEC** had in last 9 **years** a **marvellous start**
 ~950 sportsmen are taking place in this **9** years,
 thereof 453 junior (47%), who fly HEC contests
 - **HEC** has great **increasing** potential in **next years**
 - **HEC** schedule for **2019** shows again a pride offer from
 20 countries around Europe with **56 contests**
- **HEC** is a **fascinating freeflight series**

more infos you find on <http://www.creasus.de/ikarus/HEC.pdf>

HEC facts in figures 2011 - 2019 ...

9 years steady growth in most dimensions

before Final

Items	2011	2012	2013	2014	2015	2016	2017	2018	2019	Delta	
Competitors	106	165	188	205	234	280	284	295	269	-26	-11%
thereof junior	30	79	73	80	110	135	159	143	132	-11	-10%
% - share	28%	48%	39%	39%	47%	48%	56%	48%	49%	1%	Pkte
contest participations	163	260	345	407	452	564	590	583	496	-87	-19%
thereof junior	42	103	116	126	160	231	274	249	222	-27	-17%
% - share	26%	40%	34%	31%	35%	41%	46%	43%	45%	2%	Pkte
contest per competitor	1,54	1,58	1,84	1,99	1,93	2,01	2,08	1,98	1,84	-0,13	
thereof junior	1,40	1,30	1,59	1,58	1,45	1,71	1,72	1,74	1,68	-0,06	
contests	15	18	33	45	48	51	53	53	53	56	117%
thereof flown	14	16	30	40	43	45	42	48	48	47	109%
therein with juniors	10	13	21	29	30	32	35	38	34	-4	-13%
competitor / contest	11,6	16,3	11,5	10,2	10,5	12,5	14,0	12,1	10,3	-1,8	
thereof junior	4,2	7,9	5,5	4,3	5,3	7,2	7,8	6,6	6,5	0,0	
countries											
flown HEC contests in	9	9	15	20	19	19	17	19	19	0	
competitors from	14	14	21	22	21	21	19	18	20	2	

HEC flying makes fun - 120 sec is a MAX !

HEC 2020+ goals for the future !

Increasing the competitors in next years by

- motivate new sportsmen to fly F1H in **HEC**
- motivation all to take part in home countries HEC contests
- stabilizing the number of **HEC** countries over 20
- reaching, that all countries will host 3 own **HEC** contests

Bringing young, fresh blood to the flying fields by

- special juniorprogram in each country for winning new flyers by enforcing the activities of education for kids, schoolboys in FF
- prevent die out of FF due to loss of „older generation“ in next decade
- program: every senior must teach a junior, before he stop FF

Creating a lot of fun under the F1H flyers by

- running this series as fascinating and challenging with a wide basis of happy F1H flyers, especially „young and hope“ generation
- developing with enthusiasm activities in all **HEC** countries

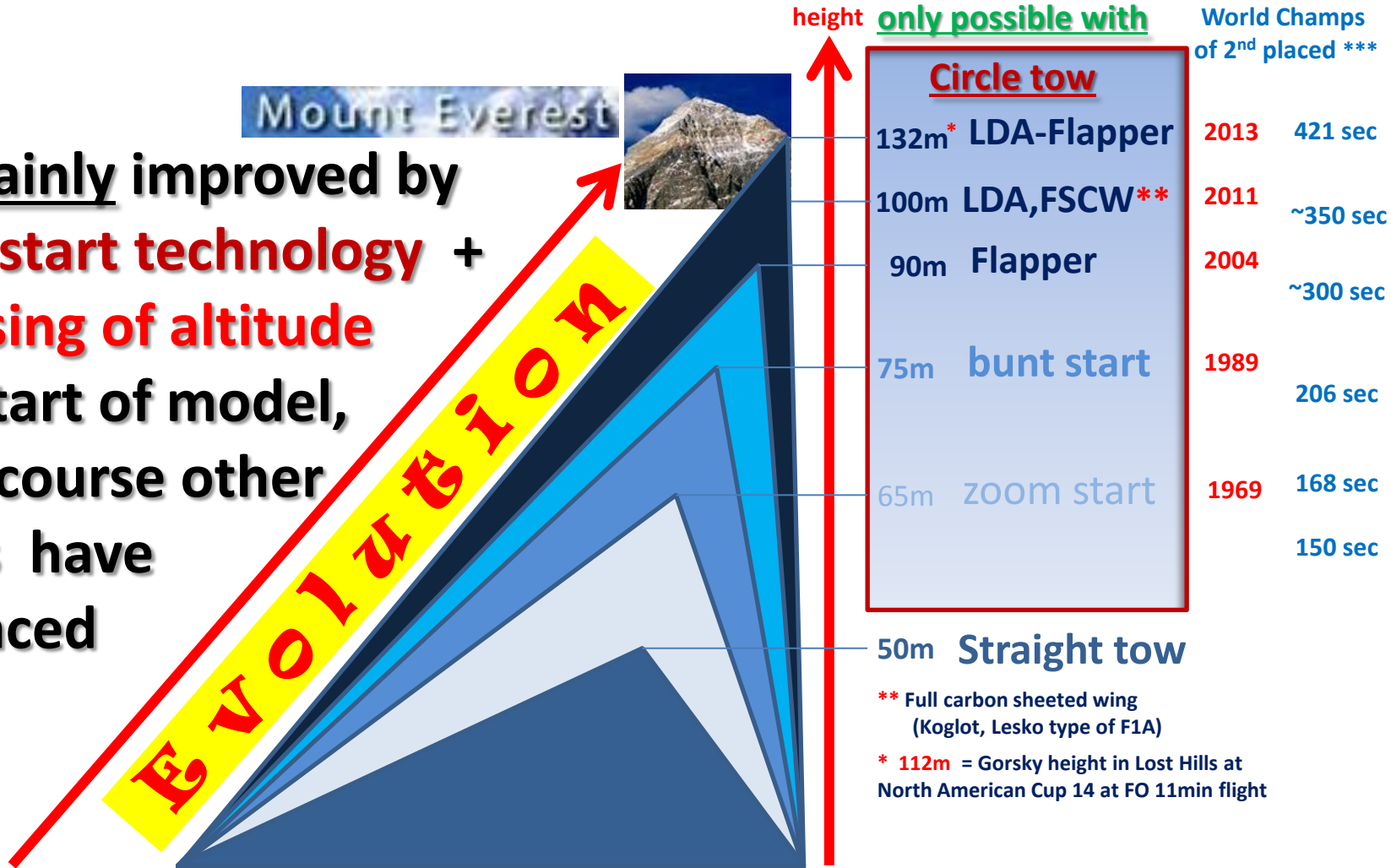


High Performance development in F1A



FLY off time at World Champs of 2nd placed ***

was mainly improved by **better start technology** + **increasing of altitude** after start of model, but of course other factors have influenced this ...



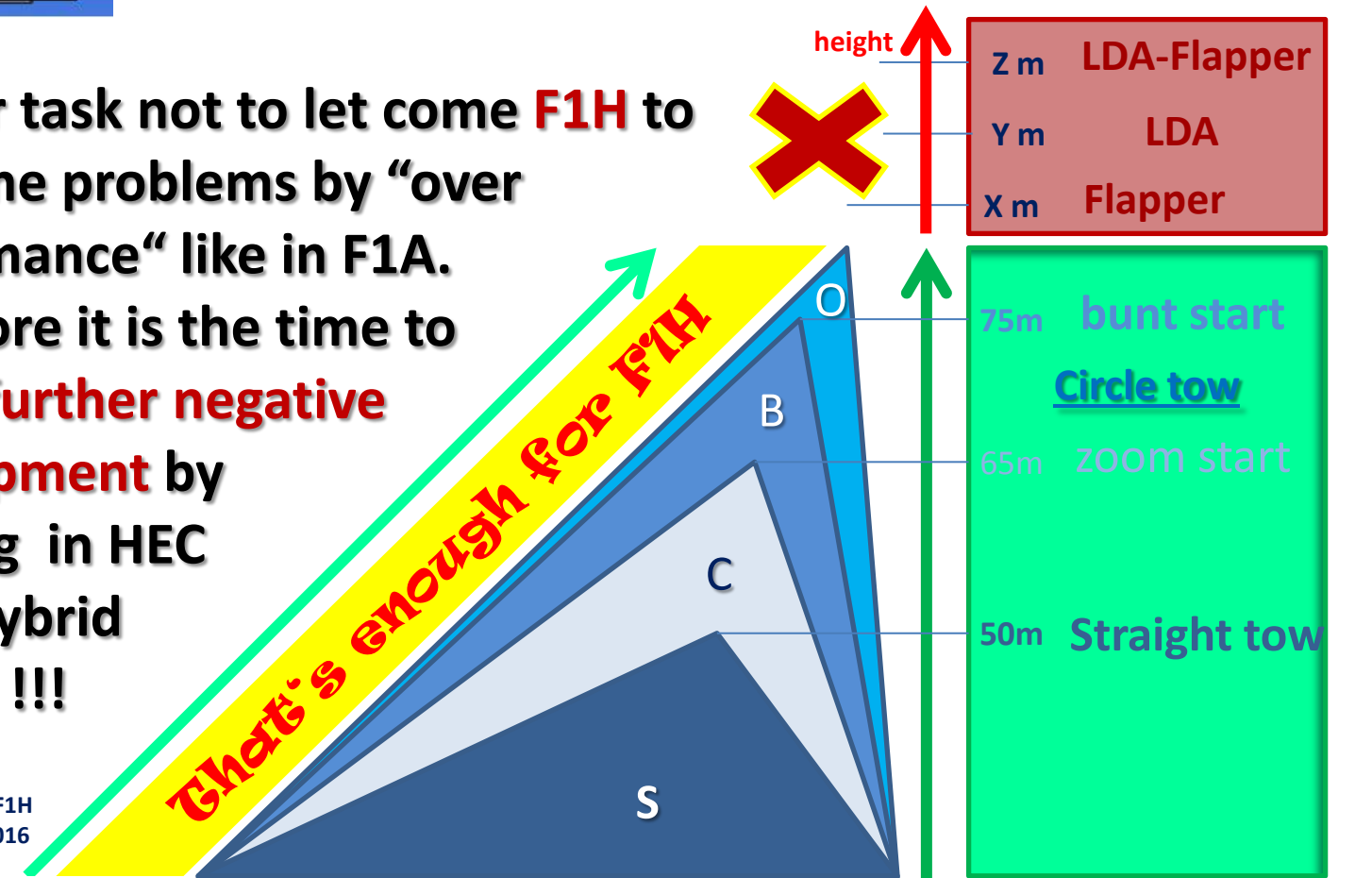


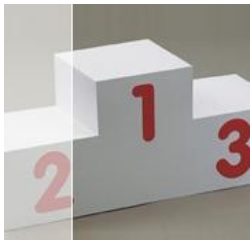
In HEC limitation of high performance

no increasing of altitude after modelstart is **welcome!**

It is our task not to let come **F1H** to the same problems by “over performance” like in F1A. Therefore it is the time to **avoid further negative development** by banning in HEC LDA/ Hybrid Profile !!!

Flapper are banned in F1H by FAI Code sportive 2016





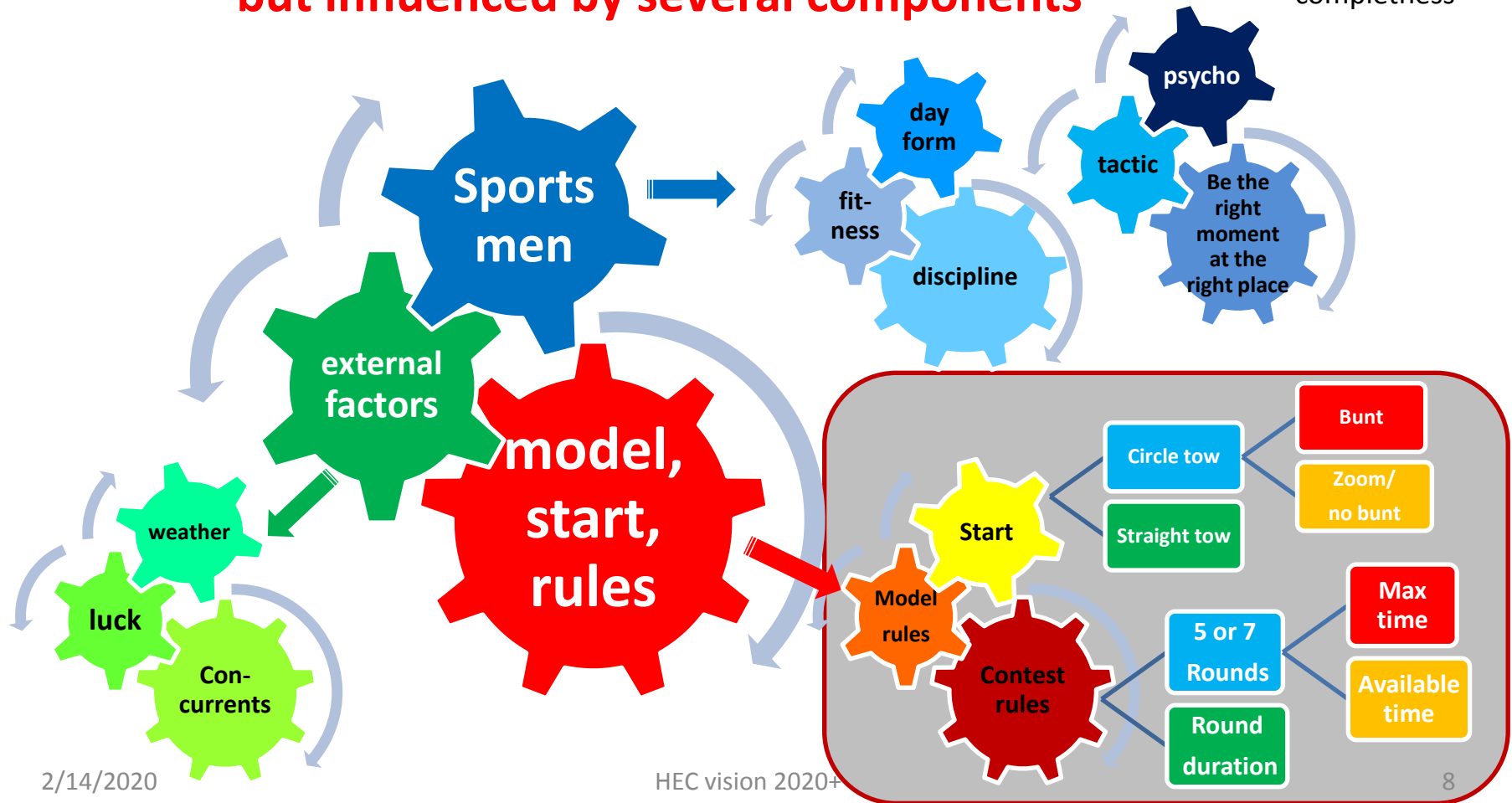
Sucess in freeflight contests is ...

not always

$$\text{1} + \text{1} \neq \text{2}$$

but influenced by several components *

* no claim to completeness



Performance increase in gliderclass by improvement of start technique

Straight tow

- Fixed towhook
- Waiting on the ground for the right moment
- Running only forward against the wind
- right or wrong moment

50 - max 52 m

Circle w/o Bunt

- Zoom towhook
- More incidence during towing relieve circling
- „wash in“ at inner panel wing prevent bad down start

~ 60 - 65 m

Circle & Bunt

- Stiffer wings from Carbon
- electronic servos to steer more functions to stabilize repeatable starts/ flights

~ 70 -75m

Performance increase in gliderclass by improvement of other components

electronics

- 1,2,3,4 .. servos
- Impuls hook
- Altimeter for trimming

Other help

GPS, RDT, Buzzer,
Flashlight

airfoils/ wings

- thinner airfoils
- Flapper
- LDA profil
- Flapped LDA
- Turbulator
- invigator
- ...

other influence

- thinner towline
- covering wings
- stiffer spars + wing joiner
- Wing wiggler
- Higher acceleration
- ...

**result: reaching more and more height
now ~ 80 - 120 m**

Comparing the way of modern freeflight with mountain climbing

MOUNT EVEREST

MATTERHORN MAGIE
LEBEN AM VIERTAUSEN

8.848 m

4.478m

High higher the highest

Hard, long way

to climb to Matterhorn in Alpes can be much more exciting than on top of the Mount Everest!

I'm happy ...

People do not decide to become extraordinary. They decide to accomplish extraordinary things.
SIR EDMUND HILLARY

MYTHOS MOUNT EVEREST
EIN BERG WIRD ERST


I CLIMBED THE MATTERHORN
4.478m / 14.690 feet

Comparing FF with mountains



You can climb on the top of Mount Everest, but without coming down to valley, you can't climb again to another mountain !

HEC is part of freeflight future and realize the wishes of lots of participants

- ① **HEC** was **founded in 2011** to create something **new** with development in another direction as alternative of actual setup by leaving the old lanes with always **“quicker, higher, longer!”**
- ② **“The last generation”** should be **not the goal** as **outlook** of Freeflight for the **future** - we can **more!**
- ③ **HEC** stands for **developing** the class **F1H** on a **lower**, but **future oriented level** than F1A with following his **own focus** and **content** with clear
 **VISION, MISSION AND GOALS** → 😊



HEC - vision 2020+

VISION OF FUTURE

- ① “Less is more !”
- ② “120 sec is a Max !”
- ③ “having fun by flying HEC !”
- ④ “flying on small fields is possible again !”
- ⑤ “launch in thermal and not only high !”
- ⑥ „achieve your goals w/o big effort !”





HEC - vision 2020⁺

VISION OF FUTURE

“Less is more !”

1

- **Less** technique , less problems !
- **Less** height in bad air, less time to come down !
- **Less** height, but in good air, more stable MAX !
- **Less** retrieving walk, having more fun at the line !
- **Less** rules, but clear and visible increase acceptance !



HEC - vision 2020⁺

VISION OF FUTURE

"120 sec is a Max !"

2

- 120 sec are **less** than 180 sec, but **still a MAX** !
- 120 sec flying in **good air** is **better** than only high !
- 120 sec is **easier** to **stop** for timekeeper !
- 120 sec **retrieving walk** is **shorter** than 3 min !



HEC - vision 2020⁺

VISION OF FUTURE

“having fun by flying HEC !”

3

- It is **not important** to **win**, but **to gain from participation!**
- To **win new friends & new experiences ...!**
- **5 rounds** with **120 sec** are not so tiring like **7** with **180 sec**
- it remain more **time** to **have fun** and **relax** with friends at **the start line** in the free nature for **socializing !**



HEC - vision 2020⁺

VISION OF FUTURE

4

“flying on small fields is possible again !”

- A lot of **flying fields** of the past are **too small** for 3 min+!
- With a **Max of 120 sec** it is possible to use this fields again!
- **Limitation** of **starting height in HEC** support this also!
- **Quicker retrieving** of **120 sec flights** is possible!
- **Enjoy** and **relax** by flying **120 sec MAX!**



HEC - vision 2020⁺

VISION OF FUTURE

5

“launch in thermal and not only high !”

- **Not** the **height** after start will be **measured** !
- **More important** is the **air**, where you **launch** !
- **Launch** in **50m** in the **right air with thermal** is better than only launch high, but in bad air !



HEC - vision 2020⁺

VISION OF FUTURE

6

„achieve your goals w/o big effort !“

- 👉 **You** decide, what are **your** goals - **make your plan!**
- 👉 **You** decide, which **type of model** you fly in **HEC!**
- 👉 **You** decide, where you **take part** at **HEC** contests!
- 👉 **You** decide, how **you find** the **right thermal!**

To reach this goals ...



it is **now** time and necessary, to bring the **HEC rules** step by step in line with the **vision and goals** of this **HEC**.

- ➡ We plan to make this **HEC** series **as fascinating and challenging** for all **different competitor groups** according of their age, abilities, wishes and possibilities, so that most are happy in the end!
- ➡ **HEC** will not be dividing F1H in different classes, it will **unit** the different interests in freeflight in **1** class with
“**all sportsmen are flying together F1H models**”
but only **record** different **categories** for **year ranking**
- ➡ **HEC unite** a lot of people with same **freeflight spirit** 😊

3 steps shall help to reach this ambitious goals by easy, due visible rule changes ...

1st step: Building a real step by step approach for beginners in Freeflight

classify the F1H - E in 2 categories (not classes, both still remain F1H)

- starting your model with open hook by straight tow **HEC - S (straight)**
- reach easier thermal by launch a circle tow model w/o bunt **HEC - C (circle)**

2nd step: split the advanced and professional F1H Bunt flyers into 2 categories

- for advanced flyers Bunt with **irreversible*** functions **HEC - B (Bunt, irreversible)**
- for professional flyers Bunt with **reversible**** functions **F1H - O (Bunt, reversible)**

3rd step: limitate the possible height increase after launch of F1H model

- no Flapper (still in FAI rules forbidden)
- no LDA/ Hybrid profiles (recommanded not to fly in HEC contests / no HEC TOP ranking)

→ **All F1H flyers will specify their model type and have to announce their category at the registration of every HEC contest**

more details you find under www.creasus.de/ikarus/HECcategories.pdf

Next steps in all HEC countries: look for kids, teach them learning of flying in the air and build a national contest series !

Bring fresh blood to the flying fields



HEC freeflight makes fun!





HEC awards

"glory and honour"



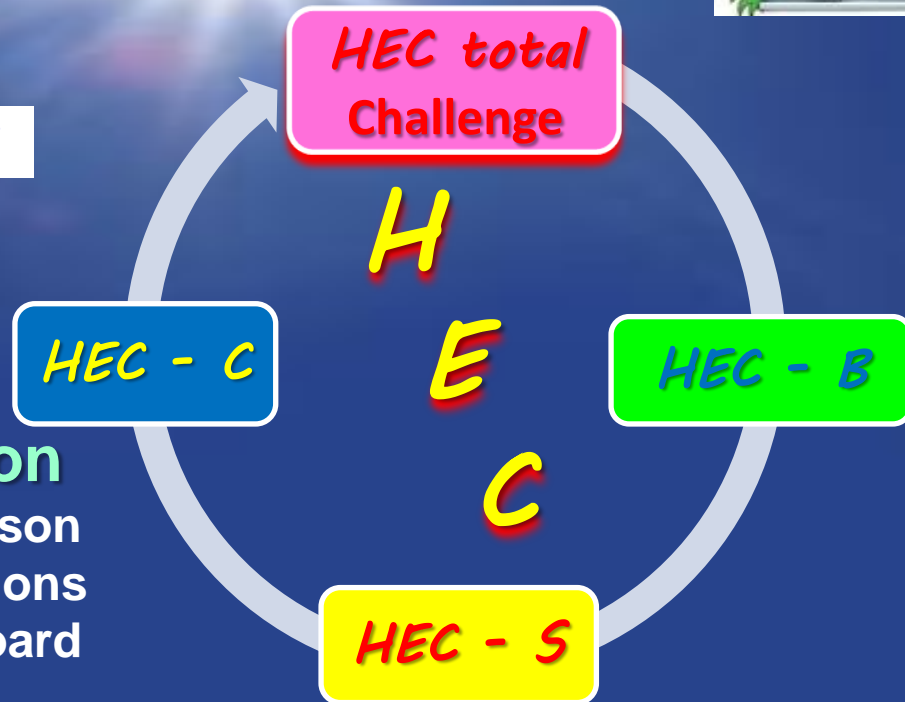
1. Results will be published on

www.creasus.de/ikarus/HECresults.pdf

2. price giving ceremony will be held at a banquet of final HEC contest

Request for HEC donation
to finance the cost of a HEC season (website, prices) we need donations from you, please mail to HEC Board

HEC14freeflight@gmail.com



→ The main task of this HEC is to have fun, enjoy the glance of Freeflight, support the idea of generating young fresh blood in Freeflight ☺

Help to understand actual **HEC** rules 2016



Request to all HEC interested



- You find the rules on HEC website www.creasus.de/ikarus/HECrules.pdf and more details under www.creasus.de/ikarus/HECnews.pdf
- Please **take time to read all carefully**, sleep **1 night** and see the **positive thinks**
- **Don't look for your personal or any disadvantage**, due every coin has 2 sides.
- Look on the **advantages** and not the **problems**, which exist to be solved by you!
- Please speak in case of **open or unclear issues for you** with your friends and in case of **non receiving satisfactory** answer, don't hesitate to contact **your HEC** country coordinator or Godfather of region - see the list
- please send **your constructive feedback** about the vision, goals and new rules to hec14freeflight@gmail.com

Background of decision making

HEC categories in F1H

The main difference in **freeflight performance** is the **height**, where you begin to fly after the launch.

So it's a big difference,

- if you stand with a **straight towhook** model on the ground and must decide, when you go in the air and can only run forward or
- if you can go up in the air and **circle with your model** and wait for thermal and making after launch only a small win of height with a **zoom start** to the side (w/o bunt) let me say to 50-65m or
- if you make a **bunt start** to 70-75m or
- If you reach with modern **LDA, Hybrid profil** a height over 80m

Of course in thermal the start height make no difference, but contest will also be decided by non thermal flights!

http://www.youtube.com/watch?v=_Nht_Vkg2FA



You find nice fotos under www.creasus.de/ikarus/bilder2011.html



Freeflight Forever
impression of 1. Europe Coupe Revival 2011



Fascination

2. Europa Coupe Revival

www.creasus.de/ikarus/ilbesheim2013.html



Freeflight Festival 2013 in Ilbesheim



...have a look on www.youtube.com/watch?v=J3JVApMWGZw
and fotos www.creasus.de/ikarus/ilb2013fotos.html

Thanks to Ilbesheim for nice freeflight weekend !

For your info and intime planning
Build a strong National Team in your country

3- EUROPA COUPE Revival

Nationalteam in F1G, F1H, F1Q, F1A-E



in ILBESHEIM/ GERMANY
on August, 20th - 23rd 2015

2 HEC
2 GEC

For your intime planning

Build strong **National Teams** in your country

5. EUROPA COUPE Revival 20xx



Nationalteam contest
in F1H, F1G, F1S, F1Q and F1A-E*
MIXED Team contest



2 EURO Challenge contest
in F1H, F1G and F1S
Contest also in F1A + F1B

In future planned

!! all classes are flown except motor engine driven !!



Thanks for your attention !



see more details about the HEC rules

under www.creatus.de/ikarus/HECrules.pdf

and HEC news

under www.creatus.de/ikarus/HECnews.pdf