POST INDUSTRIAL CANADIAN ARMY

or

LA THÉORIE DES ÉSSAINS DE DRONES ET DES CHARS D'ASSAUTS PAPIER

FIRST RED CATS EDITION

Sunday, September 15, 2019

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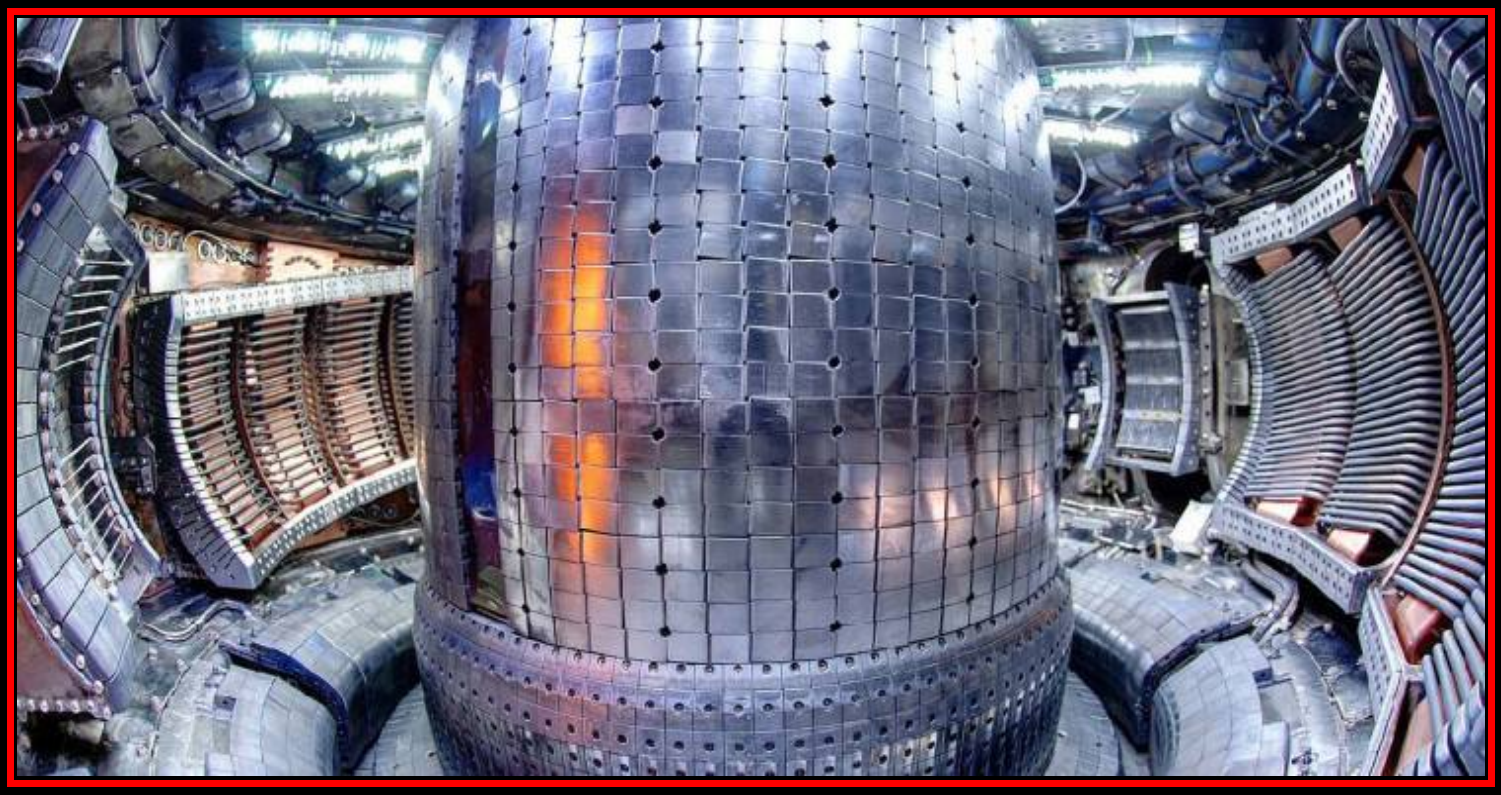
INTRODUCTION

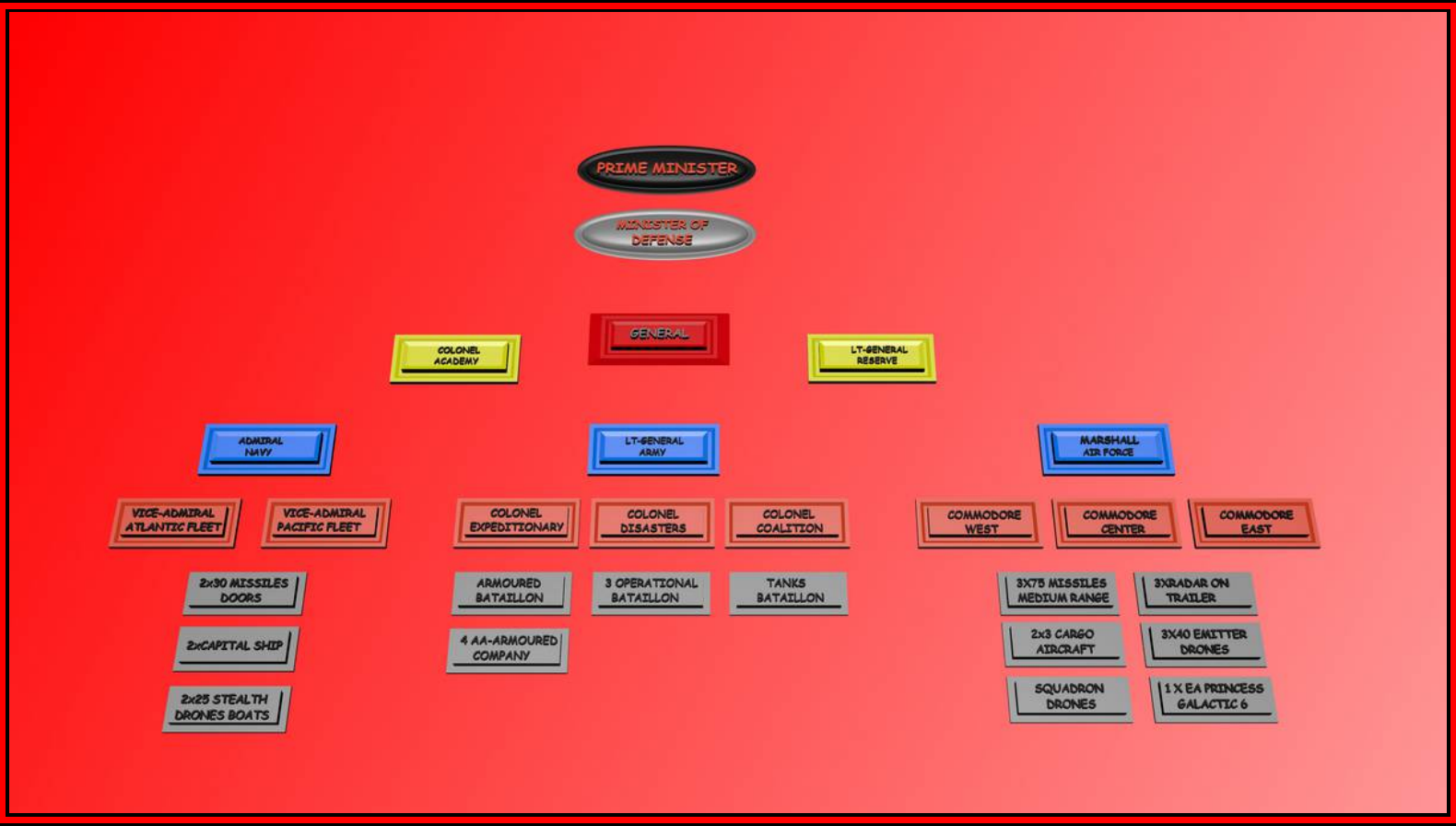
Following recent discoveries, we should be able to implemented better armed force in our nation. The new post industrialize world we are facing, is completely different than the old civilization of the last century. In this book, I will begun by giving my opinion on the reformed post industrialized army, and after implementing on the future defensive line of Human kind against alien invaders :)

Good reading...



FUSION REACTOR

HIERARCHICAL ORGANIZATION



This conception is based on my own opinion, and consist of an United Armed Force of about 10,000 women and men plus the academicians and reservists. The overall cost, should be in the range of actual budget of Canada for military, if we diluted the acquisition of material over years...

The actual combined force of Canadian army, consist of 40,000 women and men, and having a global money envelop of about: 22 B$ declared on the budget :)

In fact this is a lot of money, 1/4 of USA Army proportionally (1/4 X 1/10), and do not included pension plan for Canada...

It's not including Space Agency neither...

It will included free bubble gum for every women and men like in the past :)

THE BUDGET

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (UNAUDITED)

For the year ended March 31

19. Segmented information (continued)

(in thousands of dollars)	DCDR[5]	IS[6]	2018	2017 (Restated note 20)
Operating expenses				
Salary and employee benefits	315,251	409,626	**12,590,956**	**9,421,262**
Amortization	4,096	1	**2,527,550**	**2,624,309**
Professional and special services	82,043	16,867	**2,272,341**	**1,997,954**
Repair and maintenance	5,379	1,863	**1,285,345**	**1,318,168**
Expenses related to tangible assets	8,171	(1,412)	**772,048**	**1,054,818**
Materials and supplies	7,351	(11,717)	**828,742**	**901,457**
Transportation and communication	17,306	2,406	**734,550**	**782,497**
Other services	55,577	59,127	**537,729**	**494,876**
Accommodation	1,853	2,060	**183,898**	**190,151**
Equipment and other rentals	989	639	**175,063**	**176,155**
Utilities	88	(1,116)	**167,135**	**172,052**
Loss on disposals and write-offs and write-downs of assets	0	0	**90,260**	**167,918**
Bad debts	2,074	3,128	**31,807**	**40,238**
Interest on capital lease payments	0	0	**11,977**	**16,148**
Advertising, printing and related services	1,284	1,121	**18,354**	**14,963**
Other expenses	42,854	147,111	**816,156**	**177,118**
Total operating expenses	**544,316**	**629,704**	**23,043,911**	**19,550,084**
Transfer payments				
Transfers to other countries and international organizations	0	0	**147,137**	**140,331**
Transfers to other levels of government	0	0	**596**	**5,148**
Transfers to non-profit organizations	131	0	**5,087**	**4,911**
Transfers to individuals	0	0	**1,824**	**2,161**
Total transfer payments	**131**	**0**	**154,644**	**152,551**
Total expenses	**544,447**	**629,704**	**23,198,555**	**19,702,635**
Revenues				
Sale of goods and services	1,868	13,007	**384,421**	**409,778**
Gains on disposals of assets	246	1,740	**27,067**	**18,291**
Interest and gains on foreign exchange	239	8,919	**18,912**	**15,170**
Revenues earned on behalf of government	(1,815)	(7,763)	**(10,387)**	**(10,192)**
Other	0	11,191	**13,698**	**14,779**
Total revenues	**538**	**27,094**	**433,711**	**447,826**
Net cost from continuing operations	**543,909**	**602,610**	**22,764,844**	**19,254,809**

(1) DCSO Defence Combat and Support Operations
(2) DSCG Defence Services and Contributions to Government
(3) DRFEP Defence Ready Force Element Production
(4) DCEP Defence Capability Element Production
(5) DCDR Defence Capability Development and Research
(6) IS Internal Services

The amount of money for 40,000 men is 12,590,000,000 CAN$ for the personnel, that gives us in USD$ 9.44 Billions. So with a wage increase of 10% and a total reduction in military budget of 40%, that personnel reduction gives us 4.25 Billions USD$ available for the new acquisitions and the premature leaving of personnel per year if we reduced those soldiers to a force of 10,000...

So, what is the ratio of soldier that will be willing to leave with some compensation? I believe, that a premature retirement with a bonus of 15-25,000 CAN$ could do.

For premature retirement plan purpose

RANK/SERVICES	ENLISTED	WARRANT	OFFICER
7	5000	7500	10000
25	35000	50000	70000
45	-	100000	150000

With the perspective that I don't want to take care of actual income tax laws, those should be the revenue in their pocket after the 50% usual income at 100,000 $:) :() ;(

Those numbers looks high, because actually the pension is lowered by other revenue in tax income report, so the 10% + 10% of federal partnership is a lie. This federal contribution is spent elsewhere with the capital of the pension plan that is not distributed. But everyone has access to doctor when over 65 years old and all takes benefits of social behaviour of our society :)

So you could interpret those numbers all possible ways, sorry for the truth :(

A more realistic plan that I will use to gives extreme possibilities of the situation:

- 32,000 women and men
- no wage increase, no bonus, nothing...
- 1,89 Billion USD$ per year of investment in materials

THE ROLE OF RESERVE AND NEW CIVILIAN FORCES

For me, the army reserve should be a real reserve like in reservists, the actual conception of reserve is what I want to implemented as the civilian forces. The soldiers in the reserve will be there for optimization reasons, they are not the best actually for the duty. The civilian force will be constituted of those part time soldiers that occupied an other job in civilian society. They will get a wage only when they will be on duty, otherwise they will have access to training for free, like cadet for adults...

That way we will lowering the cost and still achieved the number we need, believe my words. Certainly, it could be bonus for training excellency, or other rewards, but a wage and a pension plan will be only for real soldiers :)

For the entire Canada, we need as mentioned 10,000 women and men, in regular active duty force, it's more than enough, compare to the power we achieved actually :) For the reserve, I believe than 2,000 men and women will be enough in time of peace :) The civilian force, as we need them everywhere and often enough, should be constituted of 15,000 women and men. They will fill sand bags and rescued citizen in danger with “chaloupes”. Some will have good formation in first aid and so on... for me, they are as much important than the regular force, and when on duty, they will receive very good compensation... as much as 1,000 CAN$ per day :) They will receive a waiver for not working when required, and won't be able to be punished for that :) With the money saved that way, we will be able to have local materials depots, for different uses.

CIVILIAN FORCES DISTRIBUTION

If needed they will take civilian planes :) They could be allowed to own trucks or bus. Those devices (civilian transports), could be stored in depots too, in fact I don't possess this knowledge :)

It should be an overall envelop of 2.5 Billions CAN$ over 15 years at all, for depot acquisitions. All that, I must remember the reader, for 25,000 civilian assets.

As example, on Alibaba, we could buy sand bags for 0,20 USD$, so 50 X 100,000 USD$, only in bags, to be stocked. Because, it's obvious, Canada is water land :() and so on...

	Plan A (15 years)	Plan B (15 years)	Plan C (15 years)
Regular Active Ready Force	10000	27000	100000
Reserve	2000	5000	20000
Civilian Force	25000 "soldiers"	25000	25000
New acquisitions (Billions USD$/year)	6,84 : 102 (Total)	1,89 : 28 (Total)	6,84 : 102 (Total)
- The Army (related to # of soldiers)	330 M	1 B	3 B
- The Air Fleet (4 B per 1 M drone)	21 X 4 B	5 X 4 B	18 X 4 B
- The Naval Fleet	10 B	4 B	10 B
- Missiles defence system (mid range)	7 B	2 B	6 B
- Cargo planes (armoured vehicles)	6X125 M	15X125 M	60 X 125 M

The insane plan, is for entering war time, those soldiers won't get a serious wage :) :() :(

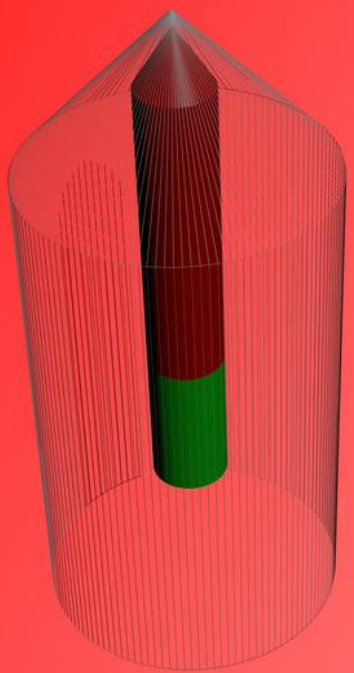
VICTORIA-NAPOLÉON PAPER TANKS DESTROYER

We can't win over 1,000 enemy tanks, so the goal to achieved is to be an effective part of a global army, and usual tanks are produced in quantity. So, my opinion is to build a different one:

- Very fast, Very light
- Powerful penetration

Fibre armour, looks to me ideal, it can't be penetrated by infantry (regular one), it's very light and cheap, maybe we could with active suspension: 1,5X the speed of regular turbine main battle tank on difficult terrain, and 2X on road... The positioning, and to be the first to fire is fundamental, more than armour, the advantage is to ammunition today... The biggest flaw will be arrow with synthetic diamond tip, at 10 USD each :) That could be prevented by a certain layer of plastic :()

For the gun, second explosion ammunition with high penetrative coefficient, and a small hole is preferable to nothing...



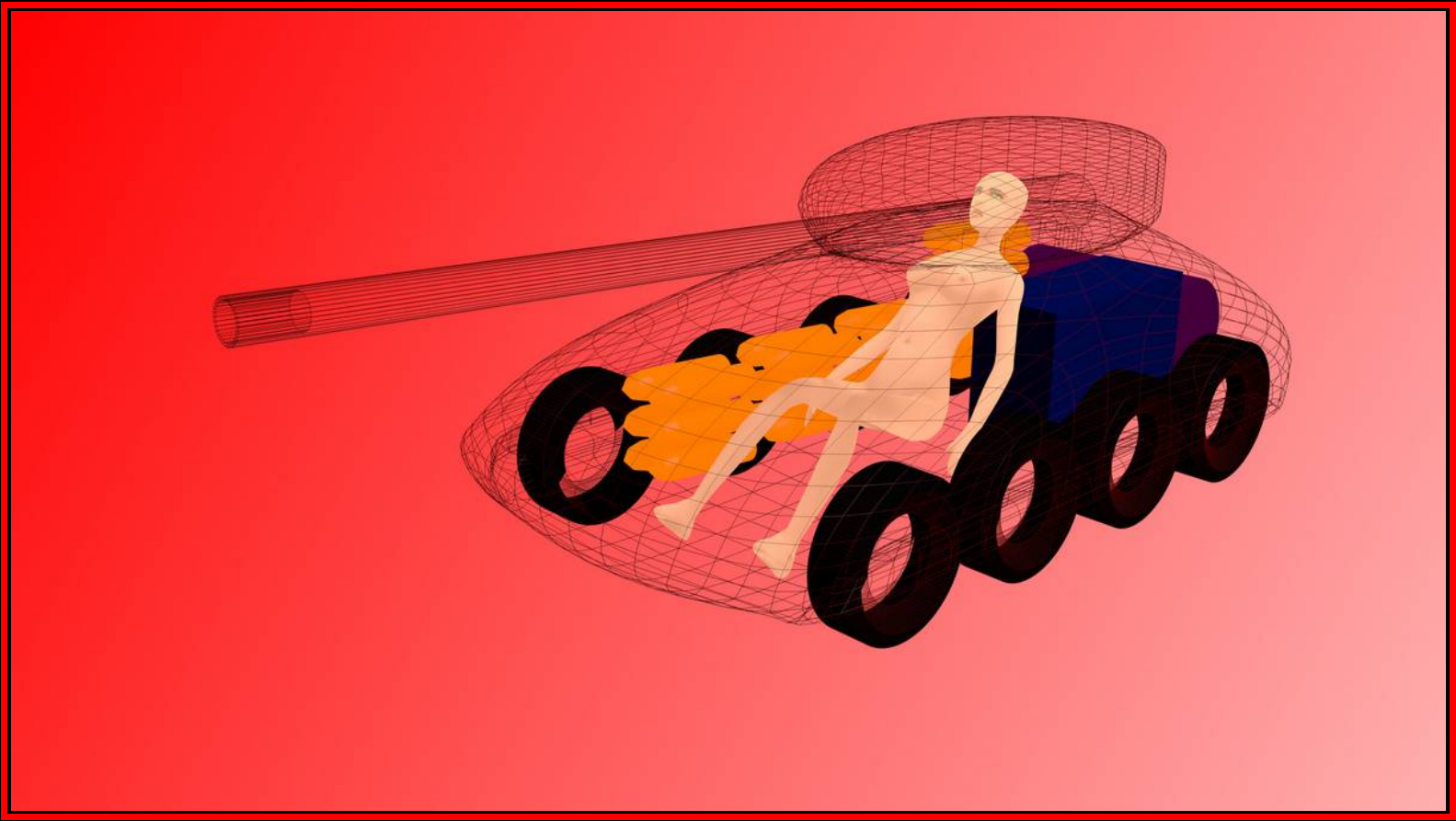
Leopard Tank, in red, 5.7 Millions new

Very good assets, those tanks, unfortunately, are budget raper...

The cost to build one tank should be around 500 Thousands USD$, the average maintenance is to be determined :)

- Turbine powered
- 1 women or men
- Chromium steel structure
- Dyneema ballistic armour
- less than 100 mm gun, as light as possible
- Tracked or wheeled
- < 5,000 kg

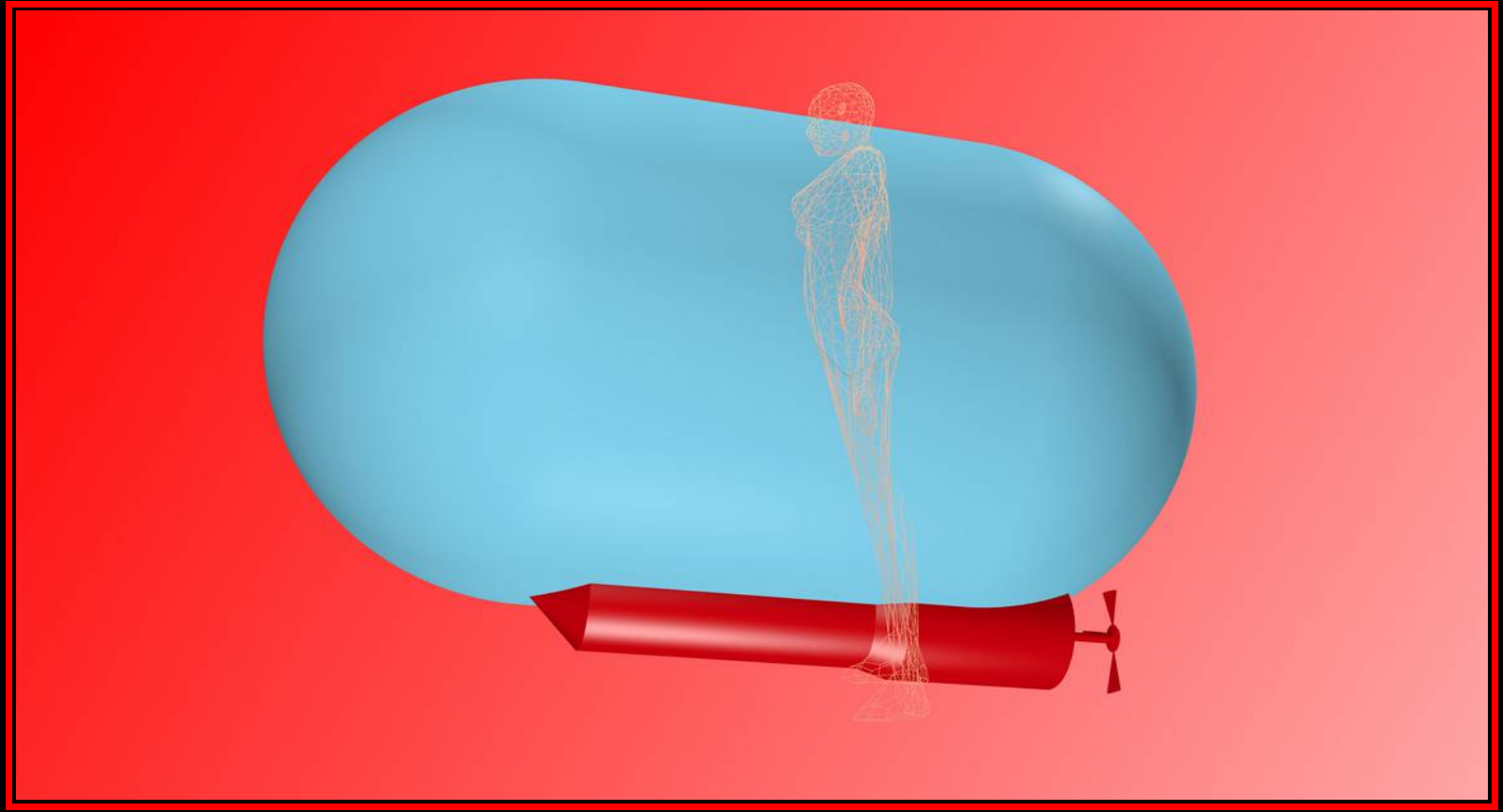
VICTORIA-NAPOLÉON PAPER TANK DESTROYER, First draft



DUALITY DRONE RADAR

Could most probably be replaced by pinhead nanotechnology :)

The low cost, large version, of the concept. A medium cost, turbine, low volume, high speed, drone could be implemented. 500 USD$ per unit: battery-gasoline engine dual power: 24 hours autonomy in good wind condition.



MISSILES UNITS

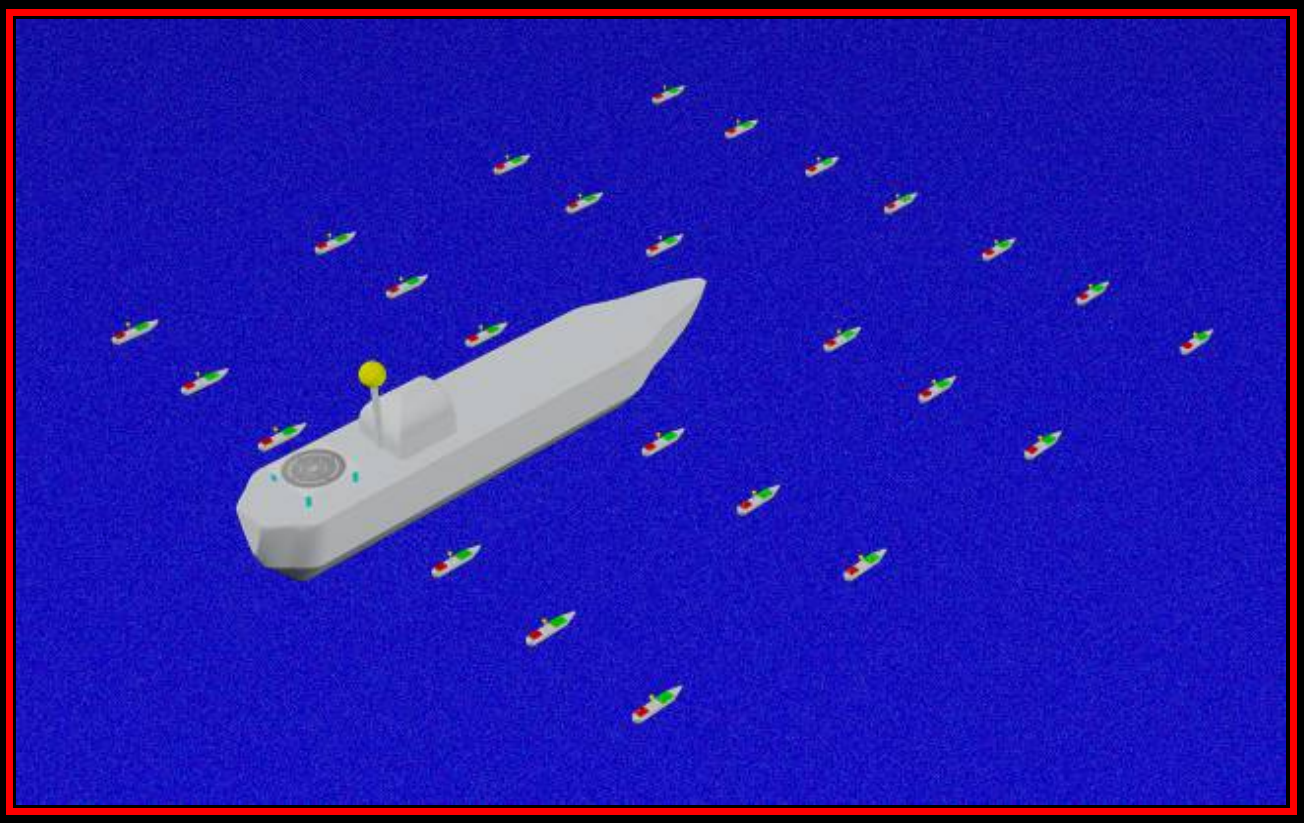
At a cost of 2-4 millions US$, European and USA missile ground-air, should be great asset, against others missiles and aircraft, if they cannot be putting down by our ballistic drones...

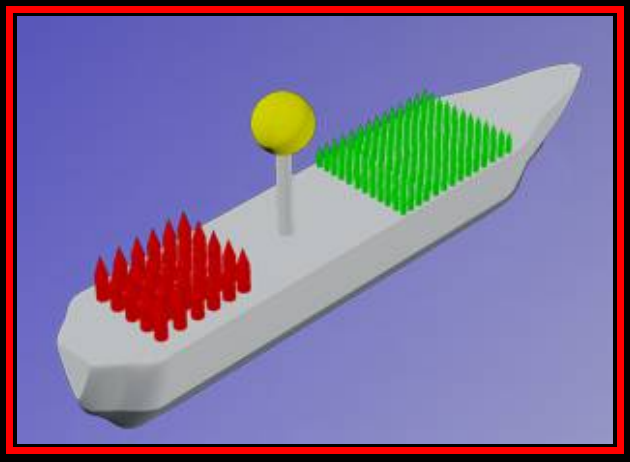
NEW LOW COST-LOW RANGE-RADAR AIMING

With the apparition of battery drone, IR aiming is not great anymore, and the cost of 4 Millions US$ for a usual missile is un-afordable for a 500 US$ drone with a grenade :)

So, we need a new kind of device, with initial radar lock, less than 10 km range and low speed missile... I'm not expecting less than 200,000 US$, but it may... If possible, we may send drone against drone with ballistic weapon, but not in all situation.

THE PERFECT FLEET





DUAL HEAT TRANSFER REACTOR

Aiming the goal to be self sufficient for ever at sea, I imagined a reactor that will produced Hydrogen at low cost (High production / Power). Base on High temperature hydrolysis, heat that will be produced in the first layer, will allow the second layer to produced fewer electric power in the turbine, having a resulting cost more efficient...

ANTI ALIEN INVASION GLOBAL ARMY

ARMY GROUP

HQ
800,000

4TH	2ND	1ST	3RD	5TH
MOUNTAIN	FIELD	POLAR	DESERT	FOREST

1ST CORPS	2ND CORPS	3RD CORPS	4TH CORPS

1ST DIVISION	2ND DIVISION	3RD DIVISION	4TH DIVISION	5TH DIVISION	6TH DIVISION
6,666	6,666	6,666	6,666	6,666	6,666

I'm proposing a global defence force of ten army group, and giving them sectors close to the re-partition of meridian and parallels. Of course every army group won't be the same, about ground force specification (polar-desert)...

You could zoom, it's 4K image...


61 MILLIONS
COMPANY
HEAVY TANK
1ST
VEHICLES
HQ-COMM.
6 x
NTH
VEHICLES
COMBAT
35 MILLIONS
PLATOON
MISSILES
1ST
VEHICLE
15X2 Millions
2ND
VEHICLE
50X38,000 USD
1 MILLION
COMPANY
POLLITIC
2ND
PLATOON
POLICE
1ST
PLATOON
POLICE
35 MILLIONS
COMPANY
MEDIUM TANK
1ST
VEHICLES
HQ-COMM.
6 x
NTH
VEHICLES
COMBAT
1 MILLION
PLATOON
RADAR
1ST
PINHEAD
CARBON TOOL
2ND
DRONES
EDA-GRAND CHATS
3RD
DRONES
EDA-PETIT CHATS
1 MILLION
COMPANY
SPECIAL TEAM
2ND
PLATOON
ELITE
1ST
PLATOON
ELITE
3.5 MILLIONS
COMPANY
PAPER TANK
1ST
VEHICLES
HQ-COMM.
6 x
NTH
VEHICLES
COMBAT
1 MILLION
BATAILLON
SUPPORT
2ND
COMPANY
MAINTENANCE
1ST
COMPANY
AMUNITION
3RD
COMPANY
KITCHEN
1 MILLIONS
COMPANY
PAPER LAV
1ST
VEHICLES
HQ-COMM.
6 x
NTH
VEHICLES
COMBAT

FOODS RATION

ITEMS	USD PER SOLDIER PER DAY
RICE	0,666 KG * 0,3 $/KG = 0,20 $
WATER	3 LITER * 0,05 USD / L = 0,15 $
VITAMIN AND SUPPL.	0,15 USD
TOTAL	0,50 USD$

CLOTHS

ITEMS	USD PER SOLDIER PER DAY
BOOTS	0.04
PANTS	0.05
SHIRT	0.02
HAT	0.03
UNDERWEAR AND SOCKS	0.01
TOTAL	0,15 USD$

Those amusing tabloid may probably happens during a serious time of war, plus the dental removal at age of 16 years old :() :(

HARRASMENT DRONES

With a cost of less than 15,000 USD$, those drones could be a very good tool:

Double of the necessary size...

- 100 kg
- 1/2 size on the picture
- 100 lbs thrust
- carbon fiber + Dyneema textile
- 2 X "kind of" M-16 gun

THE FLEET

ITEMS	NUMBER	COST PER UNIT
Satellite (optional)	1-40	500-12000 Millions USD$
HQ emitter-receiver	1 per Army	1 Million USD$
Combat tank operator	3 per Corps	5 Millions USD$
Relaying Drone	12 per Corps	25,000 USD$
Radar And Short Range Interpreter	2 per Group	100,000 USD$
EA PRINCESS ZEPPLIN	100 per Fleet	5 Millions USD$
Dummy (low cost):		
- slow (void or self-destructed)	1150 per squadron	10 USD$
- fast (void) in foam	100 per squadron	300 USD$
Fighter: (Air to Air)		
- Missiles Carrier	5	50,000 USD$
- High Speed Ballistic	750	2000 USD$
- Stealth Ballistic	75	2000 USD$
Bomber: (Ground Attack)		
- Stealth	50	2000 USD$
- Small	365	2000 USD$
- Heavy	5	500,000 USD$

For a temporary total per fleet of: 2.75 Billions USD


2.75 BILLIONS USD$
FLEET
1ST CLUSTER 250,000 DRONES
2ND CLUSTER 250,000 DRONES
3RD CLUSTER 250,000 DRONES
4TH CLUSTER 250,000 DRONES
1ST GROUP COMBAT
2ND GROUP COMBAT
3RD GROUP COMBAT
4TH GROUP COMBAT
5TH GROUP COMBAT
1ST WINGS COMBAT
2ND WINGS COMBAT
3RD WINGS COMBAT
4TH WINGS COMBAT
5TH WINGS COMBAT
5.5 MILLIONS SQUADRON 2,500 DRONES
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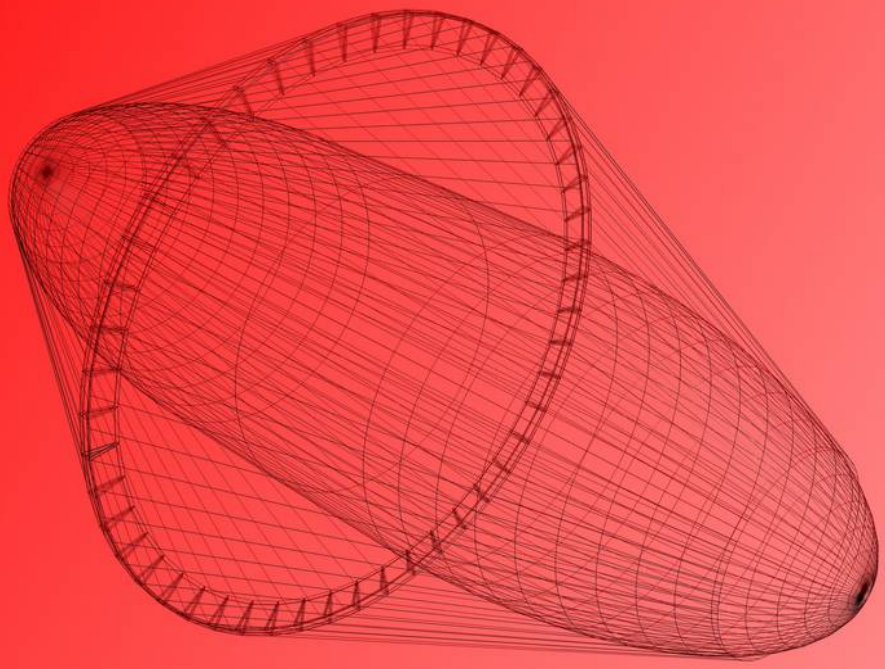
THE CLUSTER

THE ADMIRABLE SUPREME EA PRINCESS ETERNAL GALACTIC 6



THE JUSTIFICATION

What is the main purpose of this evil machine that can carry more than 10,000 war drones ? In case of semi-conventional war, because there will never be war like the WWII again, it could achieved many goals:

1. Having air supremacy, against every other kind of devices, jet fighters, certainly :)
2. Forbidding any nuclear launched over and under controlled territory :()
3. You see...
4. Complete the job thereafter, with the help of navy drones and paper tanks technology :(
5. It's very sad, but war is :() :(:(