

# UI GreenMetric Answer 2022

**ifsuldeminas.edu.br**

## University Profile

Username : ifsuldeminas.edu.br  
 University : Instituto Federal de Educacao,  
 Name : Ciencia e Tecnologia do Sul de  
 Minas Gerais  
 University : Cleber Avila Barbosa  
 Leader :

## PIC Profile

PIC Name : Leonardo Silva Manso  
 PIC Position : Sustainability Coordinator  
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No	Question	Choice	Answer
<b>Setting and Infrastructure</b>			
1.1(o)	Type of higher education institution	<input type="radio"/> Comprehensive <input type="radio"/> Specialized higher education institution	<input checked="" type="radio"/> Specialized higher education institution
1.2(o)	Climate	<input type="radio"/> Tropical Wet <input type="radio"/> Tropical Wet and Dry <input type="radio"/> Semiarid <input type="radio"/> Arid <input type="radio"/> Mediterranean <input type="radio"/> Humid Subtropical <input type="radio"/> Marine west coast / Oceanic Climate <input type="radio"/> Humid Continental <input type="radio"/> Subartic	<input checked="" type="radio"/> Humid Subtropical
1.3(o)	Number of campus site		9
1.4(o)	Campus setting	<input type="radio"/> Rural <input type="radio"/> Suburban <input type="radio"/> Urban <input type="radio"/> In city center <input type="radio"/> High rise building	<input checked="" type="radio"/> Rural
1.5(o)	Total campus area (m <sup>2</sup> )		7228912
1.6(o)	Total campus ground floor area of buildings (m <sup>2</sup> )		151774
1.7(o)	Total campus buildings area (m <sup>2</sup> )		178194
1.8(SI.1)	The ratio of open space to total area.	<input type="radio"/> ≤ 1% <input type="radio"/> > 1 - 80% <input type="radio"/> > 80 - 90% <input type="radio"/> > 90 - 95% <input type="radio"/> > 95%	<input checked="" type="radio"/> > 95%

No	Question	Choice	Answer
1.9(SI.2)	Total area on campus covered in forest vegetation (please provide total area in square meters)	<input type="radio"/> $\leq 2\%$ <input type="radio"/> $> 2 - 9\%$ <input type="radio"/> $> 9 - 22\%$ <input checked="" type="radio"/> $> 22 - 35\%$ <input type="radio"/> $> 35\%$	$> 22 - 35\%$   Total area : 2454044
1.10(SI.3)	Total area on campus covered in planted vegetation (please provide total area in square meters)	<input type="radio"/> $\leq 10\%$ <input type="radio"/> $> 10 - 20\%$ <input type="radio"/> $> 20 - 30\%$ <input type="radio"/> $> 30 - 40\%$ <input checked="" type="radio"/> $> 40\%$	$> 40\%$   Total area : 2921491
1.11(SI.4)	Total area on campus for water absorption besides forest and planted vegetation (please provide total area in square meters)	<input type="radio"/> $\leq 2\%$ <input type="radio"/> $> 2 - 10\%$ <input checked="" type="radio"/> $> 10 - 20\%$ <input type="radio"/> $> 20 - 30\%$ <input type="radio"/> $> 30\%$	$> 10 - 20\%$   Total area : 1701603
1.12(o)	Total number of regular students (part time and full time)		14168
1.13(o)	Total number of online students (part time and full time)		34849
1.14(o)	Total number of academic and administrative staff		1588
1.15(o)	Estimated annual total population		15756
1.16(SI.5)	The total open space area divided by total campus population.	<input type="radio"/> $\leq 10 \text{ m}^2 / \text{person}$ <input type="radio"/> $> 10 - 20 \text{ m}^2 / \text{person}$ <input checked="" type="radio"/> $> 20 - 40 \text{ m}^2 / \text{person}$ <input type="radio"/> $> 40 - 70 \text{ m}^2 / \text{person}$ <input type="radio"/> $> 70 \text{ m}^2 / \text{person}$	$> 20 - 40 \text{ m}^2 / \text{person}$
1.17(o)	Total university's budget (in US Dollars)		10049666
1.18(o)	University's budget for sustainability effort (in US Dollars)		428699
1.19(SI.6)	Percentage of University's budget for sustainability effort	<input type="radio"/> $\leq 1\%$ <input type="radio"/> $> 1 - 5\%$ <input checked="" type="radio"/> $> 5 - 10\%$ <input type="radio"/> $> 10 - 15\%$ <input type="radio"/> $> 15\%$	$> 5 - 10\%$
1.20(SI.7)	Percentage of operation and maintenance activities of building in one year period	<input type="radio"/> $< 25\%$ <input type="radio"/> $> 25 - 50\%$ <input type="radio"/> $> 50 - 75\%$ <input type="radio"/> $> 75 - 99\%$ <input checked="" type="radio"/> $100\%$	$100\%$

No	Question	Choice	Answer
1.21(SI.8)	Campus facilities for disable and maternity care	<input type="radio"/> None <input type="radio"/> Policy is inplace <input type="radio"/> Facilities are in planning stage <input type="radio"/> Facilities are partially available and operated <input type="radio"/> Facilities exist in all buildings and are fully operated	<input checked="" type="radio"/> Facilities exist in all buildings and are fully operated
1.22(SI.9)	Security and safety facilites	<input type="radio"/> Passive security system <input type="radio"/> Security infrastructure (CCTV, emergency hotline/button) available and fully function <input type="radio"/> Security infrastructure (CCTV, emergency hotline/button, personnel, fire extinguisher, hydrant) available and fully function <input type="radio"/> Security infrastructure is available and fully functions and security responding time for accidents, crime, fire, and natural disasters is more than 10 minutes <input type="radio"/> Security infrastructure is available and fully functions and security responding time for accidents, crime, fire, and natural disasters is less than 10 minutes	<input checked="" type="radio"/> Security infrastructure is available and fully functions and security responding time for accidents, crime, fire, and natural disasters is less than 10 minutes

No	Question	Choice	Answer
1.23(SI.10)	Health infrastructure facilities for students and academic and administrative staff wellbeing	<input type="radio"/> Health infrastructure in preparation (first aid) <input type="radio"/> Health infrastructure (first aid, emergency room, clinic and personel ) available <input type="radio"/> Health infrastructure (first aid, emergency room, clinic and certified personel) available <input type="radio"/> Health infrastructure (first aid, emergency room, clinic, hospital and certified personel) available <input type="radio"/> Health infrastructure available (first aid, emergency room, clinic,hospital and certified personel), system and accessible for public	<input checked="" type="radio"/> Health infrastructure (first aid, emergency room, clinic and certified personel) available
1.24(SI.11)	Conservation: plant (flora), animal (fauna), and wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities	<input type="radio"/> Conservation program in preparation <input type="radio"/> Conservation program 1-25% implemented <input type="radio"/> Conservation program 25-50% implemented <input type="radio"/> Conservation program 50-75% implemented <input type="radio"/> Conservation program fully implemented	<input checked="" type="radio"/> Conservation program fully implemented
<b>Energy and Climate Change</b>			
2.1(EC.1)	Energy efficient appliances usage	<input type="radio"/> < 1% <input type="radio"/> 1 - 25% <input type="radio"/> > 25 - 50% <input type="radio"/> > 50 - 75% <input type="radio"/> > 75%	<input checked="" type="radio"/> > 75%
2.2(o)	Total campus smart building area (m <sup>2</sup> )		51200
2.3(EC.2)	Smart Building implementation (percentage of the total floor area of smart building to the total all floors building area (smart and non-smart buildings area).	<input type="radio"/> < 1% <input type="radio"/> 1% - 25% <input type="radio"/> > 25% - 50% <input type="radio"/> > 50% - 75% <input type="radio"/> > 75%	<input checked="" type="radio"/> > 25% - 50%

No	Question	Choice	Answer
2.4(EC.3)	Number of renewable energy sources in campus (solar power, bio diesel, wind power, etc)	<input type="radio"/> None <input type="radio"/> 1 source <input type="radio"/> 2 sources <input type="radio"/> 3 sources <input checked="" type="radio"/> > 3 sources	<input checked="" type="radio"/> > 3 sources
2.5(o)	Please specify renewable energy sources in campus and provide capacity produced in kilowatt hour	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Bio Diesel <input type="checkbox"/> Clean Biomass <input type="checkbox"/> Solar Power <input type="checkbox"/> Wind Power <input type="checkbox"/> Geothermal <input type="checkbox"/> Hydropower <input type="checkbox"/> Combine Heat and Power	<input checked="" type="checkbox"/> Hydropower   Total kWh : 301350 <input checked="" type="checkbox"/> Solar Power   Total kWh : 1235305 <input checked="" type="checkbox"/> Clean Biomass   Total kWh : 57714
2.6(o)	Electricity usage per year (in kilo watt hour)		2365531
2.7(EC.4)	The total electricity usage divided by total campus population (kWh per person). Formula: (2.6) / (1.15)	<input type="radio"/> >=2424 kWh <input type="radio"/> >1535 - 2423 kWh <input type="radio"/> >633 - 1535 kWh <input type="radio"/> 279 - 633 kWh <input checked="" type="radio"/> <279 kWh	<input checked="" type="radio"/> <279 kWh
2.8(EC.5)	The ratio of renewable energy production divided by total energy usage per year	<input type="radio"/> <= 0.5% <input type="radio"/> > 0.5 - 1% <input type="radio"/> > 1 - 2% <input type="radio"/> > 2 - 25% <input checked="" type="radio"/> > 25%	<input checked="" type="radio"/> > 25%
2.9(EC.6)	Elements of green building implementation as reflected in all construction and renovation policies	<input type="radio"/> None <input type="radio"/> 1 element <input type="radio"/> 2 elements <input type="radio"/> 3 elements <input checked="" type="radio"/> > 3 elements	<input checked="" type="radio"/> > 3 elements
2.10(EC.7)	Greenhouse gas emission reduction program	<input type="radio"/> None (reduction program is needed, but nothing has been done) <input type="radio"/> Program in preparation (e.g. feasibility study and promotion) <input type="radio"/> Program(s) aims to reduce one out of three scopes emissions (Scope 1 or 2 or 3) <input type="radio"/> Program(s) aims to reduce two out of three scopes emissions (Scope 1 and 2 or Scope 1 and 3 or Scope 2 and 3) <input checked="" type="radio"/> Program(s) aims to reduce all three scopes emissions (Scope 1, 2 and 3)	<input checked="" type="radio"/> Program(s) aims to reduce all three scopes emissions (Scope 1, 2 and 3)

No	Question	Choice	Answer
2.11(o)	Please provide the total carbon footprint (CO <sub>2</sub> emission in the last 12 months, in metric tons)		2407
2.12(EC.8)	The total carbon footprint divided by total campus population (metric tons per person). Formula: (2.11)/(1.15)	<input type="radio"/> $\geq 2.05$ metric ton <input type="radio"/> $> 1.11 - 2.05$ metric ton <input type="radio"/> $> 0.42 - 1.11$ metric ton <input checked="" type="radio"/> $> 0.10 - 0.42$ metric ton <input type="radio"/> $< 0.10$ metric ton	<input checked="" type="radio"/> $> 0.10 - 0.42$ metric ton
2.13(EC.9)	The number of innovative program(s) in Energy and Climate Change	<input type="radio"/> None <input type="radio"/> 1 program <input type="radio"/> 2 programs <input type="radio"/> 3 programs. <input checked="" type="radio"/> More than 3 programs	<input checked="" type="radio"/> More than 3 programs
2.14(EC.10)	Impactful university program(s) on climate change	<input type="radio"/> None <input type="radio"/> Program in preparation <input type="radio"/> Provide training and educational materials for surrounding communities <input checked="" type="radio"/> Provide training and educational materials for surrounding communities and at national level <input type="radio"/> Provide training and educational materials for surrounding communities, at national level, and at regional and international level	<input checked="" type="radio"/> Provide training and educational materials for surrounding communities, at national level, and at regional and international level
<b>Waste</b>			
3.1(WS.1)	Recycling program for university waste	<input type="radio"/> Not Applicable <input type="radio"/> Partial (1% - 25% of waste) <input type="radio"/> Partial ( $> 25\% - 50\%$ of waste) <input type="radio"/> Partial ( $> 50\% - 75\%$ of waste) <input checked="" type="radio"/> Extensive ( $> 75\%$ waste)	<input checked="" type="radio"/> Extensive ( $> 75\%$ waste)
3.2(WS.2)	Program to reduce the use of paper and plastic on campus	<input type="radio"/> Not applicable. If there is no program in your university. <input type="radio"/> 1 program <input type="radio"/> 2 programs <input type="radio"/> 3 programs <input checked="" type="radio"/> more than 3 programs	<input checked="" type="radio"/> more than 3 programs

No	Question	Choice	Answer
3.3(WS.3)	Organic waste treatment	<input type="radio"/> Open dumping <input type="radio"/> Partial (1% - 25% of treated) <input type="radio"/> Partial (> 25% - 50% of treated) <input type="radio"/> Partial (> 50% - 75% of treated) <input type="radio"/> Extensive (> 75% treated)	<input checked="" type="radio"/> Extensive (> 75% treated)
3.4(WS.4)	Inorganic waste treatment	<input type="radio"/> Burned in the open <input type="radio"/> Partial (1% - 25% of treated) <input type="radio"/> Partial (> 25% - 50% of treated) <input type="radio"/> Partial (> 50% - 75% of treated) <input type="radio"/> Extensive (> 75% treated)	<input checked="" type="radio"/> Extensive (> 75% treated)
3.5(WS.5)	Toxic waste treatment	<input type="radio"/> Not Managed <input type="radio"/> Partial (1% - 25% of treated) <input type="radio"/> Partial (> 25% - 50% of treated) <input type="radio"/> Partial (> 50% - 75% of treated) <input type="radio"/> Extensive (> 75% treated) or campus produces a minimum amount of toxic waste	<input checked="" type="radio"/> Extensive (> 75% treated) or campus produces a minimum amount of toxic waste
3.6(WS.6)	Sewage disposal	<input type="radio"/> Untreated to waterways <input type="radio"/> Treated conventionally <input type="radio"/> Treated technically for reuse <input type="radio"/> Treatment for down cycling <input type="radio"/> Treatment for up cycling	<input checked="" type="radio"/> Treatment for up cycling
<b>Water</b>			

No	Question	Choice	Answer
4.1(WR.1)	Water conservation program and implementation	<input type="radio"/> None (Conservation program is needed, but nothing has been done) <input type="radio"/> Program in preparation (e.g. feasibility study and promotion) <input type="radio"/> 1 - 25% implemented at early stage (e.g. measurement of potential surface runoff volume) <input type="radio"/> > 25 - 50% water conserved <input type="radio"/> > 50% water conserved	<input checked="" type="radio"/> > 50% water conserved
4.2(WR.2)	Water recycling program implementation	<input type="radio"/> None (Water recycling program is needed, but nothing has been done) <input type="radio"/> Program in preparation (e.g. feasibility study and promotion) <input type="radio"/> 1 - 25% Implemented at early stage (e.g. measurement of waste water) <input type="radio"/> > 25 - 50% water recycled <input type="radio"/> > 50% water recycled	<input checked="" type="radio"/> > 50% water recycled
4.3(WR.3)	Water efficient appliance usage	<input type="radio"/> None (Water efficient appliances is needed, but nothing has been done) <input type="radio"/> Program in preparation (e.g. feasibility study and promotion) <input type="radio"/> 1 - 25% of water efficient appliances installed <input type="radio"/> > 25 - 50% of water efficient appliances installed <input type="radio"/> > 50% of water efficient appliances installed	<input checked="" type="radio"/> > 50% of water efficient appliances installed
4.4(WR.4)	Treated water consumed	<input type="radio"/> None <input type="radio"/> 1% - 25% treated water consumed <input type="radio"/> > 25% - 50% treated water consumed <input type="radio"/> > 50% - 75% treated water consumed <input type="radio"/> > 75% treated water consumed	<input checked="" type="radio"/> > 75% treated water consumed



No	Question	Choice	Answer
4.5(WR.5)	Water pollution control in campus area	<input type="radio"/> Policy and programs for water pollution control are in the designing stage <input type="radio"/> Policy and programs for water pollution control are in the construction stage <input type="radio"/> Policy and programs for water pollution control are in the early implementation stage <input type="radio"/> Policy and programs for water pollution control are fully implemented and monitored occasionally <input type="radio"/> Policy and programs for water pollution control are fully implemented and monitored regularly	<input checked="" type="radio"/> Policy and programs for water pollution control are fully implemented and monitored regularly
<b>Transportation</b>			
5.1(o)	Number of cars actively used and managed by University		175
5.2(o)	Number of cars entering the university daily		1011
5.3(o)	Number of motorcycles entering the university daily		269
5.4(TR.1)	The total number of vehicles (cars and motorcycles) divided by total campus population. Formula: $(5.1+5.2+5.3)/(1.15)$	<input type="radio"/> $\geq 1$ <input type="radio"/> $> 0.5 - 1$ <input type="radio"/> $> 0.125 - 0.5$ <input type="radio"/> $> 0.045 - 0.125$ <input type="radio"/> $< 0.045$	<input checked="" type="radio"/> $> 0.045 - 0.125$

No	Question	Choice	Answer
5.5(TR.2)	Shuttle service	<input type="radio"/> Shuttle service is possible but not provided by university <input type="radio"/> Shuttle service is provided (by university or other parties) and regular but not free <input type="radio"/> Shuttle service is provided (by university or other parties) and the university contributes a part of the cost. <input type="radio"/> Shuttle service is provided by university, regular, and free <input type="radio"/> Shuttle service is provided by university, regular, and environment friendly. Or shuttle use is not possible (not applicable)	<input checked="" type="radio"/> Shuttle service is provided by university, regular, and free
5.6(o)	Number of shuttles operated in your university		50
5.7(o)	Average number of passengers of each shuttle		30
5.8(o)	Total trips of shuttle services each day		150
5.9(TR.3)	Zero Emission Vehicles (ZEV) policy on campus	<input type="radio"/> Zero Emission Vehicles are not available <input type="radio"/> Zero Emission Vehicles use is not possible or practical <input type="radio"/> Zero Emission Vehicles are available, but not provided by university <input type="radio"/> Zero Emission Vehicles are available, and provided by university and charged <input type="radio"/> Zero Emission Vehicles are available, and provided by university for free	<input checked="" type="radio"/> Zero Emission Vehicles are available, and provided by university for free
5.10(o)	Average number of Zero Emission Vehicles (e.g. bicycles, cano, snowboard, electric car, etc.) on campus per day		201

No	Question	Choice	Answer
5.11(TR.4)	The total number of Zero Emission Vehicles (ZEV) divided by total campus population. Formula: (5.10)/(1.15)	<input type="radio"/> $\leq 0.002$ <input type="radio"/> $> 0.002 - 0.004$ <input type="radio"/> $> 0.004 - 0.008$ <input type="radio"/> $> 0.008 - 0.02$ <input type="radio"/> $> 0.02$	<input checked="" type="radio"/> $> 0.008 - 0.02$
5.12(o)	Total ground parking area (m <sup>2</sup> )		84034
5.13(TR.5)	Ratio of parking area to total campus area. Formula: ((5.12/1.5) x 100%)	<input type="radio"/> $> 11\%$ <input type="radio"/> $> 7 - 11\%$ <input type="radio"/> $> 4 - 7\%$ <input type="radio"/> $> 1 - 4\%$ <input type="radio"/> $< 1\%$	<input checked="" type="radio"/> $> 1 - 4\%$
5.14(TR.6)	Transportation program designed to limit or decrease the parking area on campus for the last 3 years (from 2018 to 2020)	<input type="radio"/> None <input type="radio"/> Program in preparation (e.g. feasibility study and promotion) <input type="radio"/> Less than 10% decrease <input type="radio"/> Between 10% - 30% decrease <input type="radio"/> Program resulting in more than 30% decrease in parking area or parking area reduction has reaches its limit.	<input checked="" type="radio"/> Program resulting in more than 30% decrease in parking area or parking area reduction has reaches its limit.
5.15(TR.7)	Number of transportation initiatives to decrease private vehicles on campus (e.g. car sharing, charging high parking fees, metro / tram / bus services and etc)	<input type="radio"/> No initiative <input type="radio"/> 1 initiative <input type="radio"/> 2 initiatives <input type="radio"/> 3 initiatives <input type="radio"/> $> 3$ initiatives, or initiative no longer required	<input checked="" type="radio"/> $> 3$ initiatives, or initiative no longer required
5.16(TR.8)	Pedestrian path on campus	<input type="radio"/> None <input type="radio"/> Pedestrian paths are available <input type="radio"/> Pedestrian paths are available, and design for safety <input type="radio"/> Pedestrian paths are available, designed for safety and convenience <input type="radio"/> Pedestrian paths are available, designed for safety, convenience, and in some parts provided with disabled-friendly features	<input checked="" type="radio"/> Pedestrian paths are available, designed for safety, convenience, and in some parts provided with disabled-friendly features
5.17(o)	Approximate daily travel distance of a vehicle inside campus only (in Kilometers)		1.5

### Education and Research

No	Question	Choice	Answer
6.1(o)	Number of courses/subjects related to sustainability offered		2818
6.2(o)	Total number of courses/subjects offered		5130
6.3(ED.1)	The ratio of sustainability courses to total courses/subjects	<input type="radio"/> ≤ 1% <input type="radio"/> > 1 - 5% <input type="radio"/> > 5 - 10% <input type="radio"/> > 10 - 20% <input checked="" type="radio"/> > 20%	
6.4(o)	Total research funds dedicated to sustainability research (in US Dollars) (average per annum over the last 3 years).		57309
6.5(o)	Total research funds (in US Dollars) (average per annum over the last 3 years).		195360
6.6(ED.2)	The ratio of sustainability research funding to total research funding	<input type="radio"/> ≤ 1% <input type="radio"/> > 1 - 8% <input type="radio"/> > 8 - 20% <input checked="" type="radio"/> > 20 - 40% <input type="radio"/> > 40%	
6.7(ED.3)	Number of scholarly publications on sustainability published. (average annually for the past 3 years)	<input type="radio"/> 0 <input type="radio"/> 1 - 20 <input type="radio"/> 21 - 83 <input checked="" type="radio"/> 84 - 300 <input type="radio"/> > 300	
6.8(ED.4)	Number of events related to sustainability. (average annually for the past 3 years)	<input type="radio"/> 0 <input type="radio"/> 1 - 4 <input type="radio"/> 5 - 17 <input type="radio"/> 18 - 47 <input checked="" type="radio"/> > 47	
6.9(ED.5)	Number of student organizations related to sustainability	<input type="radio"/> 0 <input type="radio"/> 1 - 2 <input type="radio"/> 3 - 4 <input type="radio"/> 5 - 10 <input checked="" type="radio"/> > 10	
6.10(ED.6)	University-run sustainability website	<input type="radio"/> Not available <input type="radio"/> Website in progress or under construction <input type="radio"/> Website is available and accessible <input checked="" type="radio"/> Website is available, accessible, and updated occasionally <input type="radio"/> Website is available, accessible, and updated regularly	

No	Question	Choice	Answer
6.11(o)	Sustainability website address (URL) if available		<a href="https://portal.ifsuldeminas.edu.br/pls">https://portal.ifsuldeminas.edu.br/pls</a>
6.12(ED.7)	Sustainability report	<input type="radio"/> Not available <input type="radio"/> Sustainability report is in preparation <input type="radio"/> Available but not publicly accessible <input type="radio"/> Sustainability report is published <input type="radio"/> Sustainability report is published annually	<input checked="" type="radio"/> Sustainability report is published annually
6.13(ED.8)	Number of cultural activities on campus	<input type="radio"/> None <input type="radio"/> 1 event per year <input type="radio"/> 2 events per year <input type="radio"/> 3 events per year <input type="radio"/> More than 3 events per year	<input checked="" type="radio"/> More than 3 events per year
6.14(ED.9)	Number of university program(s) to improve teaching and learning	<input type="radio"/> None <input type="radio"/> 1 Program <input type="radio"/> 2 Programs <input type="radio"/> 3 Programs <input type="radio"/> More than 3 Programs	<input checked="" type="radio"/> More than 3 Programs
6.15(ED.10)	Number of sustainability community services project organised and/or involving students	<input type="radio"/> None <input type="radio"/> 1 Project <input type="radio"/> 2 Projects <input type="radio"/> 3 Projects. <input type="radio"/> More than 3 Projects	<input checked="" type="radio"/> More than 3 Projects
6.16(ED.11)	Number of sustainability-related startups	<input type="radio"/> None <input type="radio"/> 1 - 5 startups <input type="radio"/> 6 - 10 startups <input type="radio"/> 11 - 15 startups <input type="radio"/> > 15 startups	<input checked="" type="radio"/> > 15 startups