



Universidad Mayor de San Simón
Facultad de Ciencias y Tecnología



Reporte de la Simulación de Inversiones

versión_ini	gresos_año	gresos_año	gresos_año	gresos_año	gresos_año	TIR
-103472	32848	29997	31064	30031	30348	15,189
-98622	32984	26794	27333	29983	27827	14,68
-103752	24921	32566	30295	31924	27956	12,827
-106314	28877	31121	30565	32295	35294	14,396
-99212	31413	29066	30962	26966	27754	14,85
-103627	32484	30541	27096	27491	30605	13,519
-96692	30747	30868	31332	30977	30483	17,957
-92986	31686	32986	29784	32022	26571	19,841
-100283	33622	27389	28682	31116	29411	15,399
-102538	29356	33148	27192	26294	25431	12,242
-107574	30361	32128	27568	32495	36210	14,164
-96608	31094	31113	30497	31120	30187	17,952
-105480	29456	32282	29682	31448	28499	13,466
-88545	28307	30804	27943	24470	32603	18,718
-106341	26407	31888	33020	30672	36340	14,255
-105387	37810	30778	32536	32985	28627	17,166
-104900	33906	27080	32767	32904	29529	15,04
-104897	30691	24031	30363	29787	29441	11,583
-95597	26932	31744	25071	34440	26754	15,569
-99711	32713	26723	38960	28067	35095	18,32
-100485	30890	35355	28332	29654	29383	16,407
-103495	29151	29276	28084	29840	32650	13,279
-106455	28345	24881	29937	33538	31857	11,776
-92172	30838	21972	31318	26346	24220	14,509
-102987	36583	34043	29809	28217	27722	16,76
-99763	27998	24464	34827	29727	25497	13,155
-105265	30104	27190	36925	31883	30496	14,661
-105827	25342	31700	24460	26575	29226	9,294
-96078	34000	24854	32234	31942	29016	17,704
-113102	30269	28776	31537	32038	28668	10,543
-95883	30947	26225	33371	30367	29873	17,177
-97893	28207	34516	29111	32234	30822	17,381
-98692	33278	34458	28614	28537	35008	18,764
-98478	26530	29413	26803	24291	27036	11,382
-97559	31698	32266	34118	28542	33332	19,142
-100910	32045	29159	28034	26777	29051	13,789
-110971	29408	33973	28015	29967	30648	11,541
-98412	30748	33904	28672	29347	31034	17,158
-93106	30317	30969	28959	34601	31109	19,813
-100493	25502	26141	27458	27307	29345	10,682
-91303	28166	28478	28625	31914	32252	18,47
-103852	26577	29451	29606	25186	27384	10,415
-99405	31666	31621	30234	34848	27527	17,348

-97250	25403	25514	30405	31423	27827	13,269
-96103	28974	28818	31544	29827	27758	16,084
-98506	27997	27681	30618	30280	31889	15,029
-110504	29059	29403	26170	30956	30523	9,99
-99001	28963	32877	29340	31599	28285	16,05
-96501	26748	33727	30710	31599	30636	17,446
-100930	27394	26828	28698	33106	30328	13,384
-104172	29617	34447	28945	32287	32890	15,59
-108058	26264	34314	31245	31138	30709	12,805
-95809	26646	27834	24143	28310	23921	11,538
-90710	31225	30895	30125	33933	28630	21,036
-94802	33640	29178	28481	29862	32515	18,756
-106367	28734	38336	35743	24729	26884	14,43
-94724	32304	34926	27987	28948	28979	19,133
-98723	27872	24380	32201	35038	33464	15,726
-106487	27371	31043	24230	32001	37587	12,582
-105638	24223	37730	27982	33172	31270	13,774
-100311	29507	31190	24719	28150	34628	14,372
-97769	34129	28970	30904	31305	34137	18,827
-97398	25515	29344	33229	29049	27101	14,532
-104345	30994	28088	27159	33034	28911	12,943
-97795	30686	28193	35196	28406	30865	17,106
-99850	32071	30632	30902	27713	30358	16,052
-95661	26585	27326	31459	32145	28663	15,615
-96046	30554	34824	34366	30198	34650	20,922
-106615	35313	28616	27996	39539	33873	16,394
-102993	30319	27933	28954	29764	34560	14,084
-101510	29285	26149	30012	32018	38376	15,335
-101559	35954	26125	27638	25983	30225	13,923
-98033	33077	24456	32135	27605	29324	15,311
-93371	29573	26844	30763	31811	31281	17,895
-105075	26201	31305	32064	35281	31059	14,251
-97213	27307	31664	27676	29141	33074	15,754
-103186	29022	31346	31134	32653	31464	15,216
-101015	27657	27882	27086	29699	30155	12,459
-105990	31640	27975	29675	31125	28275	12,578
-103179	28793	33897	30887	29025	30386	14,795
-103205	31227	31280	33190	31259	30371	15,979
-101552	32682	26887	31682	26004	32867	14,681
-102335	29359	33065	34504	23597	32642	15,25
-88316	26593	28559	27387	27360	30409	17,41
-107286	38376	30916	27814	27362	29193	14,124
-96921	34119	30170	35007	24176	24833	17,174
-101610	27465	32546	26674	30251	32320	14,091

-104324	27345	29198	25474	29321	33710	11,722
-95882	30198	31410	26761	30273	25624	15,797
-110519	28310	31253	32507	30246	25119	10,617
-109973	24646	27842	30511	29482	25256	7,931
-102467	30857	26781	30773	32458	28132	13,922
-98678	29672	33948	32531	30479	34074	18,556
-100987	30343	29152	27423	31663	30720	14,52
-97449	30221	36598	26911	32710	31056	18,577
-107146	30918	33780	24937	31439	31123	13,049
-102862	29048	32575	27774	32073	31573	14,726
-88872	28871	29626	26220	29882	28734	18,399
-92134	30581	31927	32164	27823	30089	19,823
-105749	31225	30074	32122	24765	28833	12,417
-99527	31337	29321	28424	27560	36418	16,021
-96057	35314	30666	27716	32363	29289	19,064
-101785	34382	30596	28932	31832	30396	16,506
-91348	31371	30886	26709	22808	30411	17,366
-107068	32153	28270	27754	32079	31084	12,734
-106311	31919	31024	30462	29556	28632	13,397
-105812	29150	31351	32232	36634	33169	15,721
-97483	32914	27895	32179	35064	28459	18,252
-99924	27955	38285	26142	33396	29718	16,841
-100666	31781	26364	30023	27325	33123	14,47
-97261	28952	30912	30135	32109	31298	17,128
-96998	28332	28747	24999	30607	32538	14,782
-98728	32124	28892	34873	25889	24882	15,513
-102650	29893	33522	30140	25445	30841	14,326
-97045	30538	33450	25801	25641	31363	15,893
-104477	32349	30081	33009	29318	27943	14,486
-91048	30232	27600	31839	29659	33341	19,725
-94754	29493	31576	32301	30615	24770	17,617
-107441	34276	25791	31901	34527	23720	12,705
-96667	26728	25359	31695	29488	30583	14,428
-94730	26204	28871	29426	35382	29442	16,752
-106929	25367	29938	26710	29420	34496	10,859
-98672	30199	30322	32051	31179	28435	16,517
-99695	30948	32828	32238	30138	30516	17,381
-103661	33704	26245	30919	32132	31309	14,902
-96601	34027	34107	28301	29619	26155	18,319
-98156	29070	26017	32256	29128	30812	14,99
-98155	31916	30550	31052	27047	29808	16,483
-98427	32124	35925	28840	33293	26169	18,351
-91419	31411	29492	26049	29909	32089	18,814
-94740	31691	28954	28669	30838	27181	17,118

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-97339	31556	30757	21213	32238	32267	15,77
-98196	35639	29604	25176	31001	31409	17,218
-109712	29593	30224	34206	30397	27082	11,939
-99524	34015	29200	27997	27842	31420	15,9
-104549	29899	31499	32691	27655	27942	13,541
-105683	26413	28281	31655	33910	30759	12,727
-103517	23813	28027	32025	35483	28214	12,536
-102740	25622	30068	30480	27813	24454	10,948
-95268	32232	22941	30779	27714	34399	16,429
-106968	35295	24143	32315	32741	29518	13,645
-98378	30503	28481	33102	32393	33537	17,754
-100685	27370	29730	30173	27828	28320	13,069
-99122	30721	30187	28976	28062	28403	14,842
-102824	31956	25990	31014	29621	26836	13,015
-103051	30220	32585	35772	30148	30763	16,593
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-106648	26245	29788	26251	33375	31867	11,454
-100324	31453	26988	22013	33412	32314	13,777
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-98036	32378	28955	29209	30973	30746	16,812
-100452	28155	26992	29478	26528	27584	11,878
-102800	28804	26371	30509	29132	31387	12,761
-106386	28624	32829	30078	24752	33186	12,496
-104309	28582	34030	28361	31476	31466	14,422
-98858	30993	27293	30276	34429	33106	16,977
-106036	31090	28060	29942	27576	21080	9,937
-98815	29297	31709	28322	30712	32258	16,202
-101061	25944	30058	25621	30545	29699	12,221
-100076	36147	31922	26545	32143	31605	18,015
-103059	32844	30316	33359	28822	28012	15,321
-94372	29005	30634	34848	32144	35533	20,474
-90940	30382	27101	30973	38694	25201	19,956
-88358	28103	25652	28799	31374	34549	19,285
-96837	32715	30586	35674	28144	26307	18,273
-99537	32934	27206	32163	28680	27199	15,322
-98366	30833	33482	31042	31263	30452	18,063
-99518	25511	26820	34295	31578	30461	14,466
-94594	28490	31704	26712	32442	29426	17,15
-98451	23057	33836	27285	34861	31576	15,308
-108742	32918	26825	33683	27077	31398	12,386
-108229	33642	29627	28262	28599	25125	11,207
-92907	31085	31313	26531	30273	29904	18,364
-107344	28845	32951	33716	28762	29422	13,369

-98955	24768	33057	37074	28631	26643	15,662
-104192	31312	34239	34183	33489	30070	17,214
-99123	31774	33643	26789	30062	33650	17,32
-95334	32585	24567	34179	27224	30237	17,056
-95106	31001	30840	27434	28815	26401	16,277
-101431	29479	28696	31308	32927	29397	14,971
-105454	28564	32489	30588	30619	30327	13,657
-96958	34037	30883	34212	27030	28161	18,537
-104775	35666	31675	28017	25450	28893	13,945
-103917	27438	26881	31554	34920	28805	13,129
-100550	34815	28506	27741	32632	27485	15,793
-101740	25379	32314	27224	31966	30191	13,347
-99507	24613	28078	30760	29287	29038	12,721
-98473	35679	29966	30215	26140	33350	17,878
-97134	29668	31874	27292	29312	27591	15,523
-105543	30450	30720	31446	27937	25624	12,318
-100227	33183	25217	35807	32059	31884	17,242
-103314	31948	27076	32480	31852	28487	14,453
-101029	31450	23762	29951	29623	29167	13,068
-97637	30833	34096	32407	26617	35369	18,851
-104683	26196	29289	27886	31101	30515	11,618
-87117	26955	26593	29089	32844	32627	19,799
-111011	27681	30046	28680	27183	27906	8,725
-106801	28009	25940	29458	31373	31211	11,077
-101525	26990	28651	31807	32083	30166	14,131
-91315	27922	23215	31922	25375	30354	15,503
-91044	30840	33024	23037	32196	30105	19,265
-102993	27345	33590	28701	29744	30520	13,869
-102265	25946	27600	33429	32357	32238	14,077
-91471	31587	29481	31383	32167	30640	20,649
-106448	34188	27276	29464	29468	31882	13,375
-87775	32793	33513	30891	26653	28274	22,621
-97938	31513	30806	33128	27058	32627	17,67
-104530	33641	27377	29314	27491	31792	13,442
-101299	35944	28842	29781	37280	33294	18,774
-101268	32569	28327	28308	34408	37171	17,106
-100905	36338	29396	28034	29467	32163	16,79
-99936	24689	26456	22201	27642	31379	9,779
-99829	25616	32883	33008	30168	33798	16,245
-99349	29337	29887	31902	31697	25422	15,214
-96432	34431	34676	31145	27968	34848	20,888
-110656	29504	25842	34449	27017	31075	10,403
-99942	30722	33204	30382	26196	35004	16,776
-105759	29297	32773	34435	30384	32554	15,274

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-90477	35348	28539	32368	31451	25122	21,454
-84084	30663	32840	32568	19664	32291	23,066
-103216	32397	26737	29670	29318	34393	14,408
-93648	29816	33545	31246	27565	25224	17,986
-92359	31135	27275	28418	24230	33403	17,041
-105275	34236	27466	29403	28877	35187	14,438
-96418	27626	28324	28304	24326	27934	12,961
-98544	32446	32774	28729	28686	32150	17,465
-105240	29830	31304	31300	25022	28252	12,22
-104551	36978	32007	35478	30414	33388	18,709
-94159	25822	27032	26967	35764	28359	15,437
-105940	26481	27972	27068	29914	27304	9,624
-99584	27707	27285	24361	30396	31175	12,495
-93440	28835	28449	32336	30753	28322	17,695
-98123	31822	32472	31470	33997	30678	19,015
-91822	28880	29446	32894	32072	29389	19,514
-95071	23825	29163	28361	28233	29796	13,831
-93429	32310	29166	33846	26386	26798	18,4
-98339	34190	39993	26862	32553	33838	21,3
-110304	30364	34629	27077	28000	28056	11,018
-101040	34883	32801	30140	31586	31609	18,237
-101562	28075	27055	33083	31036	32664	14,615
-108484	26842	26654	28505	31815	26069	9,024
-100528	28935	33366	31308	34544	30596	17,219
-94520	31723	37303	28625	32782	31197	21,323
-105076	29777	28336	28374	31677	30402	12,636
-109729	32775	29380	31865	30348	31899	13,11
-98362	27044	24935	26613	28939	29566	11,909
-101014	28555	30042	34066	30940	24990	14,597
-104341	32825	29661	27019	27212	33278	13,559
-97009	32443	25863	24454	33196	32203	15,786
-102902	29113	30691	31350	33413	33186	15,733
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-104201	32938	27039	31039	24717	27052	11,966
-93729	26098	31229	27047	31780	31765	16,876
-94800	25758	29247	28951	28203	31108	15,148
-90911	32425	35015	29973	31526	27874	22,128
-104381	31419	31538	34280	28483	23868	13,936
-96717	32754	28251	28957	32558	24981	16,428
-91045	32090	29086	29793	34587	23967	19,718
-103406	33339	27542	28225	30091	28735	13,516
-102647	27709	27391	26967	24235	32400	10,792
-99707	33520	31280	32893	29615	28159	17,438

-104857	30117	32837	33803	30288	32001	15,645
-103430	28560	31348	28174	29245	32413	13,566
-98760	27081	28486	24207	26411	28634	11,34
-100670	27490	30461	31110	24194	31696	13,451
-110738	28558	30896	32183	29989	29147	11,232
-94496	31020	24914	36349	30161	27474	17,707
-105989	25867	26647	33008	31467	32503	12,104
-97051	34089	29292	34394	32372	24853	18,641
-98307	32786	27600	35471	31518	33145	18,724
-94179	33058	29251	33853	30030	29111	19,732
-93043	29608	33920	26992	30857	24565	17,751
-102052	27113	31283	25021	33235	30758	13,337
-103331	28621	27173	29713	34927	29692	13,543
-97995	26142	31100	25559	28437	32750	13,985
-98648	26275	26754	32687	31798	30006	14,594
-95897	33225	28261	30427	30371	30169	17,966
-104328	29506	28838	30070	32509	31534	13,869
-102061	26177	30043	28707	32279	29663	13,166
-109135	32173	33468	28393	35043	22920	12,672
-98524	30466	32779	27905	33726	29166	17,082
-100898	26913	31257	28781	24997	34275	13,509
-95011	29907	32348	29921	33258	29695	18,882
-102533	29681	31004	32429	28999	31250	15,066
-98389	28916	31035	24711	35205	31937	16,035
-102784	34917	30816	27229	29165	28660	14,875
-100756	31855	29024	26818	34068	33251	16,043
-91265	28346	29075	29873	35811	26301	18,851
-104069	32782	32826	30303	31382	26518	15,13
-103148	28696	35694	23570	30825	29732	13,63
-92622	30564	32938	29269	30478	31709	20,05
-116160	33193	29835	30619	30459	28371	10,033
-90488	32874	24935	29379	29358	33606	19,443
-95178	24466	35053	34295	32773	30634	18,848
-101753	25684	29002	25505	30260	27145	10,852
-103628	27756	30922	30027	36866	31398	15,127
-99728	30912	30561	26339	25602	31015	13,978
-107993	24998	25049	30359	28563	31569	9,075
-108414	30680	30916	27291	31697	25649	11,14
-106567	33500	33989	26090	28161	31278	13,799
-92706	34075	34659	31724	31080	30932	22,749
-102782	31234	31148	33076	22604	28939	13,716
-106419	27266	30557	31099	28195	29266	11,602
-104736	29067	34280	28482	29624	29010	13,586
-102928	31569	34594	31217	27118	26457	14,943

-105097	27809	28611	31998	29753	30859	12,652
-103683	29248	35292	32751	32537	28237	16,064
-97905	32349	29830	26899	27169	26182	14,558
-100041	28995	33026	30167	29537	34327	16,623
-108504	27534	31058	31896	28933	30092	11,632
-106355	27821	27390	29430	27793	27705	9,952
-93874	27736	28934	24673	29113	33925	15,812
-94671	28032	35435	33477	27285	33163	19,598
-92148	25999	31548	37387	31496	28422	19,843
-102211	32770	30389	26050	31354	27521	14,15
-95100	28320	34229	26463	26919	22851	14,796
-96202	27800	30177	32780	29725	26399	16,079
-96121	31414	32719	31412	27526	28313	17,854
-95530	29341	28927	36540	28726	33533	18,822
-103914	27755	31828	31557	35506	34145	15,901
-98456	27517	35016	33387	36695	30329	19,095
-96995	30318	31501	31308	35835	26347	18,172
-102188	24112	31113	33169	30117	29016	13,282
-97391	25765	27190	27118	38176	32284	15,523
-102076	33812	28713	25433	28358	32404	14,192
-100987	31510	25133	31011	29040	26208	13,045
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-105460	25431	24290	28013	28745	30394	9,023
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-96303	31121	24990	29364	29144	32430	15,756
-102845	35273	29300	27913	33653	32485	16,534
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-96695	30054	32225	31555	27179	29621	17,114
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-101945	31700	34689	31131	32808	28200	17,129
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-95196	30896	31401	37152	35016	29000	21,131
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-104890	34181	22594	29786	26324	31620	11,811
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-96271	29708	38664	33561	33147	28521	21,045
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-99708	33354	32684	29994	33966	34358	19,239
-94576	23513	25475	32905	33337	27089	14,699
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-97998	29062	31963	33563	32620	36323	19,176
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-98932	31329	31410	29157	26524	33263	16,255
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-97601	25406	29227	28517	30328	29779	13,936
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-100180	27293	30584	37872	28267	30440	16,187
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-106730	27849	31394	35485	27072	32682	13,542
-95844	34880	31015	37912	25753	28961	20,373
-109053	31764	31374	31717	32108	29969	13,591
-99256	29338	30318	29785	31785	29593	15,696
-97452	30540	31200	35579	31198	34867	19,685
-99869	32390	29599	30607	26450	23144	13,85
-100519	34487	29921	30088	23761	30491	15,272
-104558	25637	32020	31238	29406	32164	13,133

Graficos

Grafico del Histograma TIR

Histograma TIR

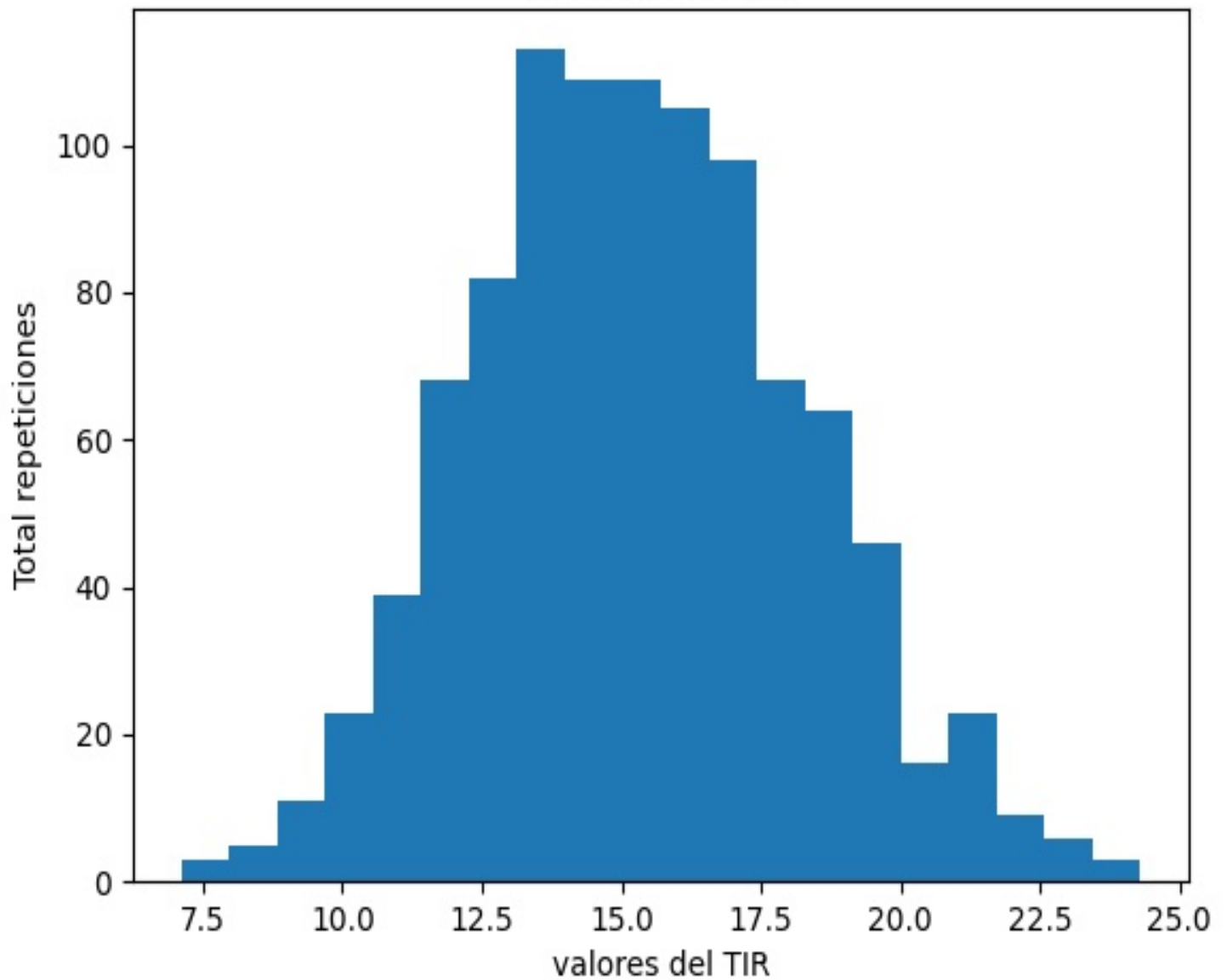


Grafico de la Distribucion Acumulada TIR

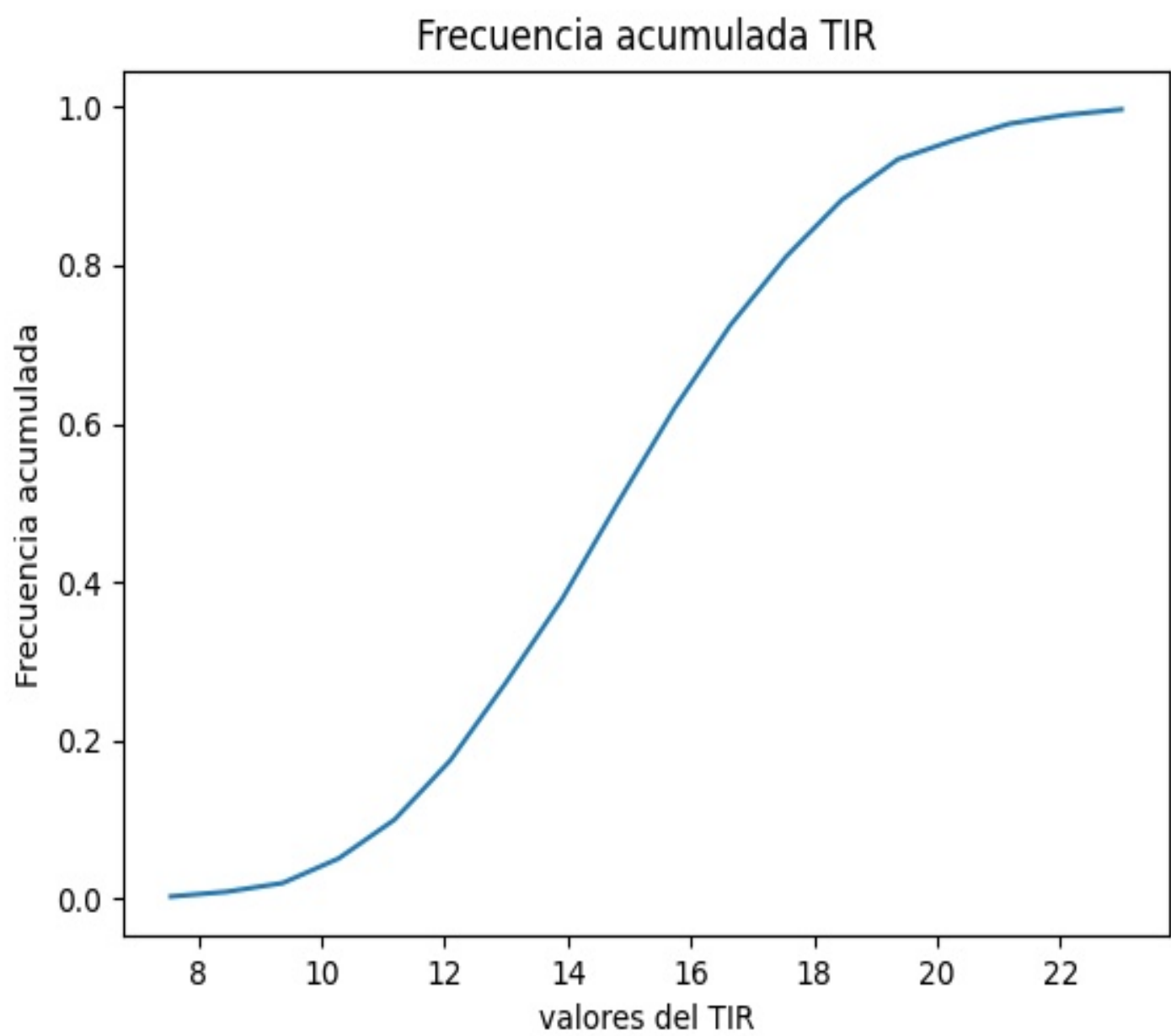


Grafico del Flujo Neto

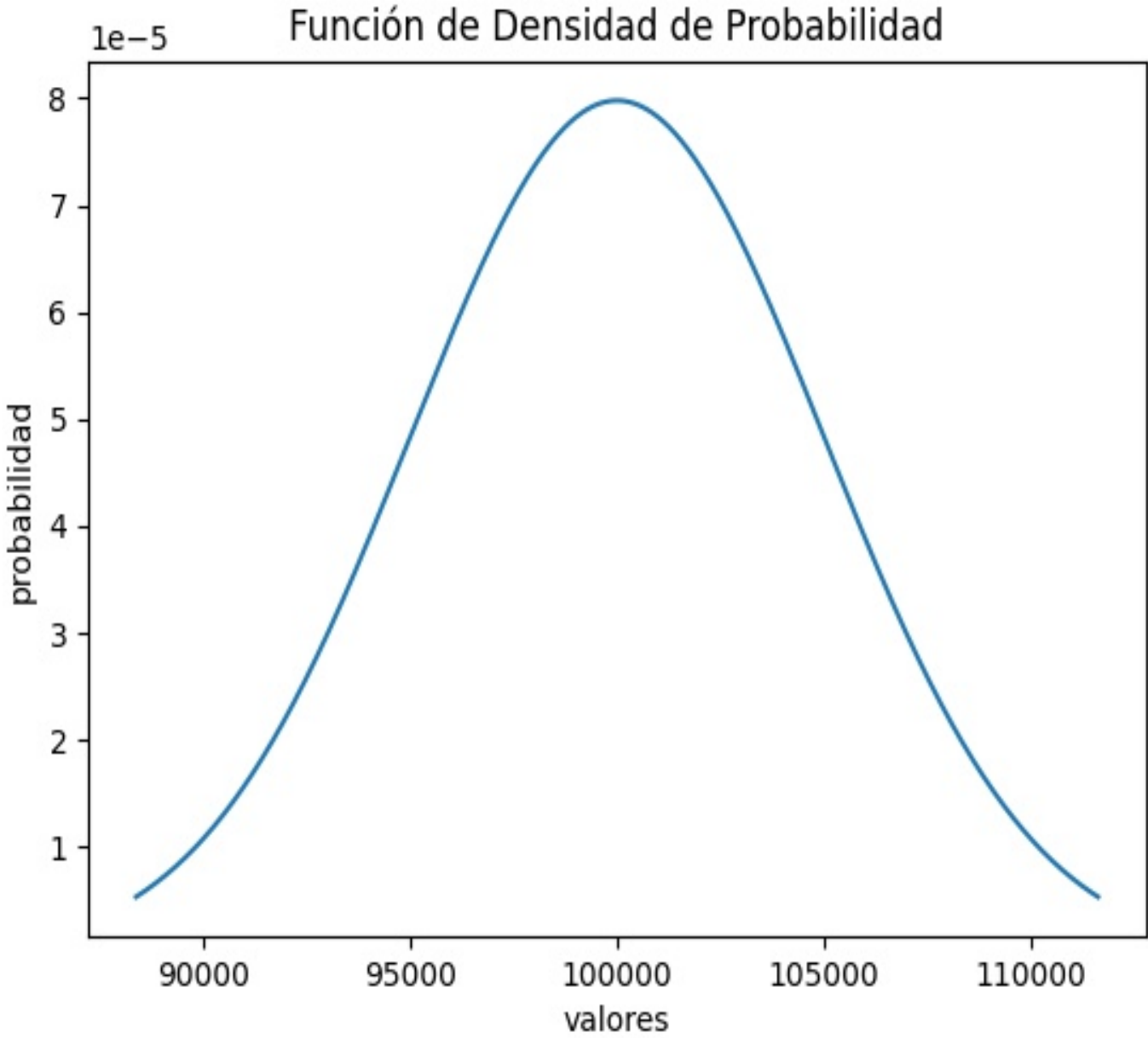
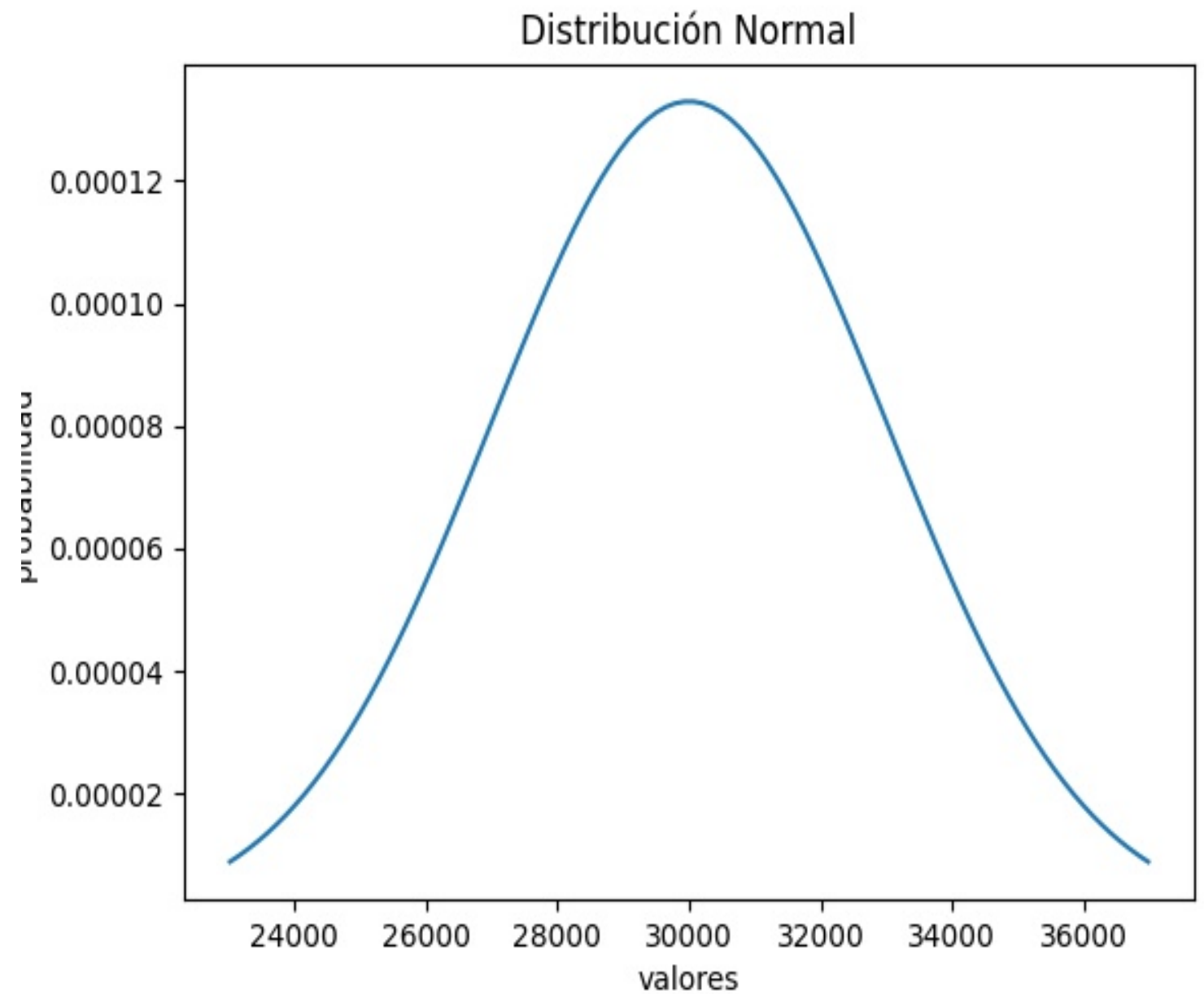


Grafico de la Inversion Normal



Conclusion

Los resultados de esta simulacion para la inversion de este negocio da a concluir que el proyecto es rentable para llevarlo a cabo ya que se muestra en los graficos que se logra un valor de ingresos aceptables.